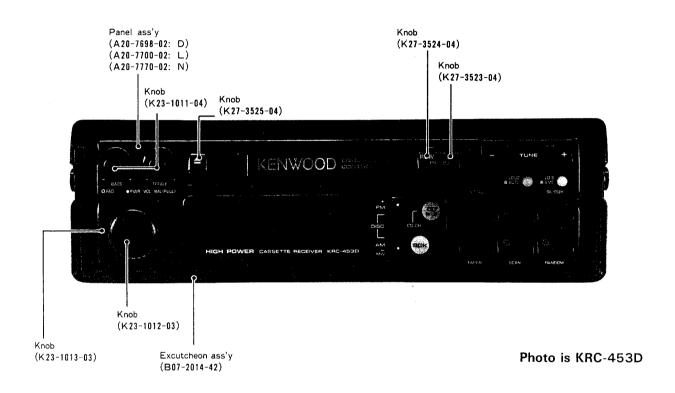
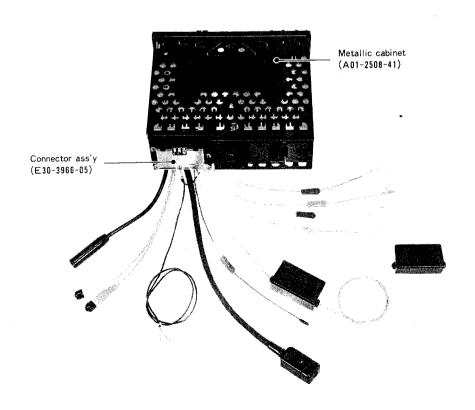
STEREO CASSETTE RECEIVER

KRC-453 D/L/N SERVICE MANUAL

KENWOOD

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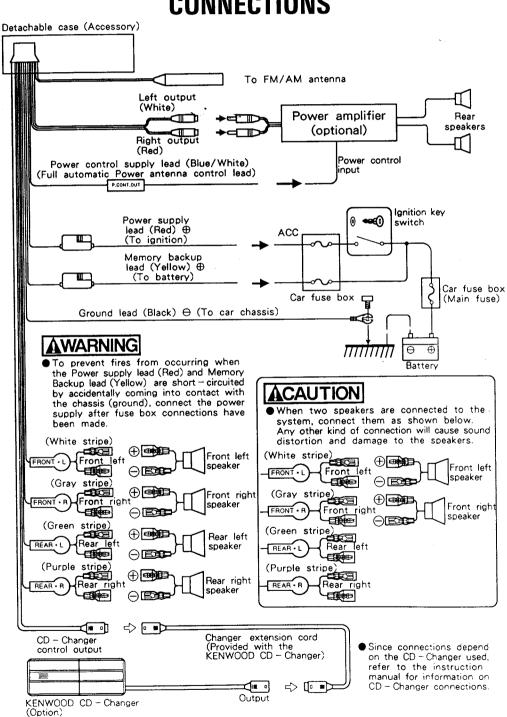




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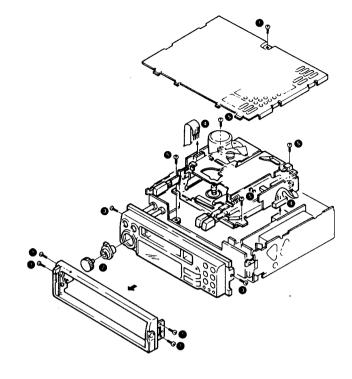
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CONNECTIONS

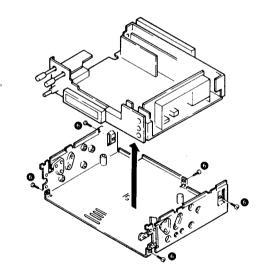


DISASSEMBLY FOR REPAIR

- 1. Remove the 5 screws (1), then remove the top panel and the escutcheon ass'y.
- Pull out the VOL and FAD control knobs (2).
 Remove the 2 screws (3), and take out the panel ass'v.
- 4. Disconnect the 2 connectors (4).
- 5. Remove the 4 screws (5), and take out the mechanism ass'v.

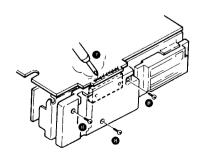


6. Remove the 6 screws (6), and take out the whole of the circuit board.

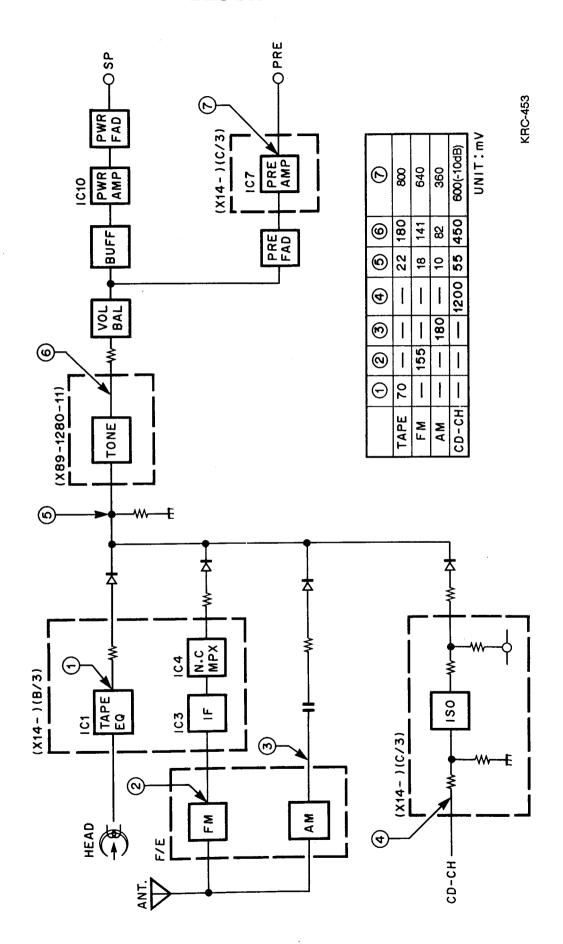


To remove the power ass'y:

- 7. Remove solder from the power IC (?).
- 8. Remove the 3 screws (B).9. Take out the power IC together with the heatsink, then separate the power IC from the heatsink.



BLOCK DIAGRAM



4

CIRCUIT DESCRIPTION

Description of componentSYNTHESIZER UNIT (X14-347X-XX)

Ref. No.	Components	Use/Function	Operation/Condition/Compatibility
IC1	BA3424F	TAPE EQ AMP	
IC3	LA1140-K	FM IF AMP	FM IF signal amp.
IC4	AN7465K	FM MPX N.C	Demodulator, noise canceler.
IC5	M5280FP	ISOLATION AMP	CD-CH and AUX (J type) isolation amp.
IC6	NJM4565MD	1/2 V _{cc} BUFF	Buffers the voltage generated by Zener D and resistance division, and supplie voltage as $1/2 V_{CC}$ for the tone amp and preamp.
IC7	NTM4565MD	PRE AMP	
IC10	TA8215H	PWR AMP	
IC11	BA3906-V1	AVR	Supplies of V _{DD} , CE, COM 9V, FM 9V and AM 9V. MUTE output.
IC12	1723GF-593-3BE	μ-СОМ	Key control, other controls, PLL, LCD drive.
IC13	TC4081BF	AND Gate	For use with μ-COM key matrix (alternate SW).
IC14	NJM 4565M	SDK IC INPUT BUFF, BK BPF	D type only
IC15	TDA1579	SDK IC	BK/DK signal demodulation and detection. D type only
Q3	2SC2413K	FM IF AMP	Amplifies IF signal from F/E.
Q4	2SC2412K	SD BUFF	
Q5	2SC2412K	CRSC Driver	
Q6	2SC2412K	ANRC BUFF	
Q7	DTC144EK	AFC SW	OFF during seek, ON during receive.
Q10, 11	DTC144EK	FM/AM SIG. INHIBITOR	
Q12	DTC144EK	SIG. SW	ON in CD-CH and AUX modes.
Q13, 14	DTC144EK	EXT. INPUT SIG. INH.	
Q15, 16	2SD1757K	VOL BOOST SW	D type only
Q17, 18	2SD1757K	LOUD CON SW	
Q19, 20	2SD1757K	AUDIO MUTE	
Q21, 22	2SK433	PWR AMP INPUT BUFF	
Q23	DTC144EK	PWR AMP STBY SW	
Q24	DTC144EK	FM LO/DX SW	
Q25	DTC144EK	AM BS DRIVER	L type only
Q26	DTA144EK	AM BS SW	Q25 control L type only
Q27	DTA144EK	AM AGC CUT SW	
Q29	DTC144EK	00 1111	
Q30~32	2SC2412K	SD INV.	
Q33	DTC144EK	SK LAMP ERRONEOUS LIGHTING PREVENTION SW	D type only
Q34	DTA114EK	DIAID ON SV SIII	
Q35	DTC114EK	PWR ON 5V SW	
Q36	DTA144EK	ACC DETECT	
Q37	2SB1370	II I I I I I I I I I I I I I I I I I I	
Q38	2SC2412K	ILLUMINATION AVR	10.4 V (Darlington)
Q39	DTA144EK	MANUAL RST	
Q40, 41	DTC144EK	LOCAL INH.	

CIRCUIT DESCRIPTION

Ref. No.	Components	Use/Function	Operation/Condition/Compatibility
Q42	DTC144EK	TAPE MUTE INH.	
Q43	DTC144EK	PACK IN INV.	
Q44	DTC144EK	AUDIO MUTE INV.	
Q46	2SA1037K	Audio Mute Driver	ON in MUTE mode to drive Q19 and Q20.
Q47	2SA1037K	LOUD SW Driver	ON in LOUD mode to drive A17 and Q18.
Q48	2SA1037K	VOL BOOST SW Driver	
Q49	DTC144EK	Mute SW	D type only
Q51~53	2SC2412K	PLL L.P.F	FM/AM Vt LPF.
Q54	2SC2412K		THO AN CELL.
Q55	DTA144EK	MECHANISM MUTE SW	MUTE in FF, REW and PROG modes.
Q56	DTC144EK	MOTOR Drive SW	
Q57	2SA1428 (O, Y)	MOTOR Driver	

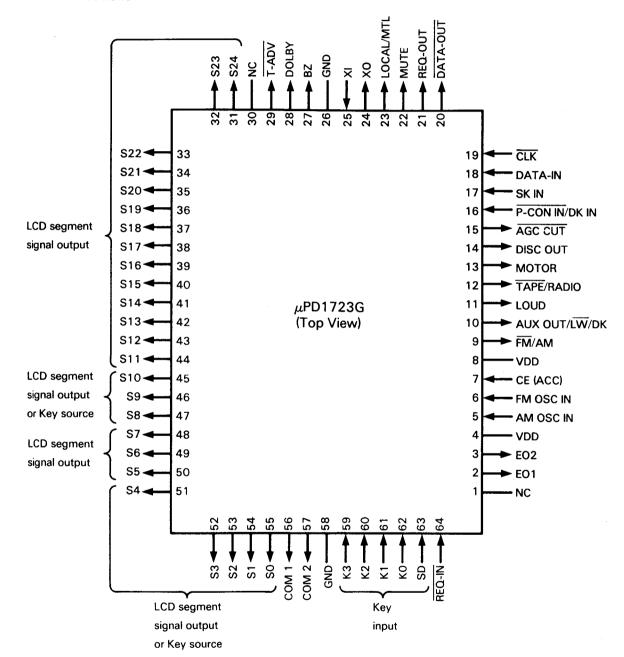
Terminal connections DAUGHTER UNIT (X89-128X-XX)

Ref. No.	Components	Use/Function	Operation/Condition/Compatibility			
IC1	1 TC74HC04AF CD-CH I/O		Buffer for data communications with I/O box in CD-CH mode.			
IC2	NJM4565L-D	TONE CONTROL AMP	Some and the second sec			
Q1, 2	DTC144EK	TAPE SIG. INH.	Signal inhibition and MUTE output in Tuner and CD-CH modes.			
Q3	DTC144EK		organisms and More output in runer and CD-CH modes.			
Q4~6	-6 2SC2412K DTC114EK	ACC DETECT	Outputs early MUTE when ACC is lowered or during manual reset. Performs			
Q7			early grounding of μ-COM CE pin when ACC is switched OFF.			
Q11	DTC144EK	CD-CH REQ IN BUFF.				
Q12	2SC2412K	CD-CH CD CON BUFF.				
Q13	DTC144EK	CD-CH REQ IN BUFF.				
Q14	2SA1037K	CD-CH REQ IN CONTROL	When ACC is ON, recognizes whether CD-CH is connected or not, and outputs signal to μ-COM.			

CIRCUIT DESCRIPTION

1723GF-593-3BE (IC12:X14-3472-70) 1723GF-594-3BE (IC12:X14-347X-XX) **Microprocessor IC**

Terminal Connections



CIRCUIT DESCRIPTION

Terminal descriptions

Pin No.	Pin Name	1/0	Function Name	Operation				
1	NC		NC					
2	EO1	0	EO1	PLL error output terminals. If the frequency obtained by dividing the local oscillation frequen				
3	EO2	0	EO2	(VCO output) is higher than the reference frequency, these terminals output "H" level. If not they outpt "L" level.				
4	V _{DD}		V _{DD}	Power input teminal.				
5	V COL	I	AM OSC IN	Inputs VCO output from 0.50 to 30 MHz.				
6	V COH	1	FM OSC IN	Inputs VCO output from 15 to 200 MHz.				
7	CE	1	CE (ACC)	"H" level when it is required that the device operate normally. "L" level when the device is rused.				
8	V _{DD}		V _{DD}	Power input terminal.				
9	PD1	0	FM/AM	FM/AM switching port. Outputs "H" during AM reception. Outputs "L" during FM reception. Fixed at "H" in TAPE, CD and AUX (J type) modes, and "L" while SDK (SDK type) is ON. During tuner call, the output varies depending on the band.				
10 PD2 O LV		LW/DK	(E type) Outputs "L" during LW reception. Also outputs "L" during LW reception in course of tuner couputs "H" in other cases.					
			AUX OUT	(J type) Audio signal switching output port. Outputs "H" in CD-CH and AUX modes.				
11	PD3	0	LOUD	Loudness control ON/OFF output terminal Switched to "H" or "L" when AUTO/LOUD key have pressed for 2 sec. "H" → LOUD ON.				
12	PC0	0	TAPE/RADIO	TAPE audio switching port. Outputs "H" in CD-CH and AUX modes.				
13	PC1	0	MOTOR	Cassette mechanism motor ON/OFF control port. Outputs "H" while TAPE IN key is OFF. Outputs "L" in AUX, CD-CH and DK interrupt (SDK type) modes.				
14	PC2	0	DISC OUT	Outputs "H" when operating CD changer. Outputs "L" during DK interrupt (SDK type).				
15	PC3	0	AGC CUT	Normally, outputs "L" while CE is "H". Outputs "H" in AUX mode.				
16	PA0	1	DK IN	(SDK type) Input port for DK detection. Inputs "H" when DK signal is present.				
			P-CON IN	(J-type) Input port for AUX input detection. "L" in AUX mode and "H" in other cases.				
17	PA1	1	SK IN	(SDK type) Input port for SK detection. Inputs "H" when SK signal is present.				
18	PA2	l	DATA-IN	Input terminal of DATA from CD-CH.				
19	PA3	1	CLK	Input terminal of CLK from CD-CH.				
20	PB0	0	DATA-OUT	Output terminal of DATA to CD-CH.				
21	PB1	0	REQ-OUT	Output terminal for requests to CD-CH.				
22	PB2	0	MUTE	MUTE output terminal, which outputs "H" in MUTE period. MUTE is not output while CE is "L". If CE turns from "H" to "L" during MUTE output, MUTE also turns from "H" to "L".				
23	PB3	0	LOCAL/MTL	LOCAL control output port in Tuner mode. Active "H". In TAPE mode, used as the METAL control output terminal which outputs "H" when METAL is ON.				
24	хо	0	XO	X'tal connection terminals.				
25	XI	ı	XI					
26	GND		GND					
27	CGP	0	BZ	Beep sound pulse output port. Outputs 2.0 kHz pulse for 60 ms.				
28	PL3	0	DOLBY	Dolby control output terminal. Outputs "H" when Dolby is ON.				
29	PL2	0	T-ADV	T-ADV control output terminal. Outputs "L" only when T-ADV and alternate SW FF/REW are ON in TAPE mode.				
30	LCD25	0	NC	Segment output terminals.				
31	LCD24	0	S24					
44	LCD11		S11					

CIRCUIT DESCRIPTION

Pin No.	Pin Name	1/0	Function Name	Operation
45	LCD10/KS10	0	S10	Segment output and key source terminals.
47	LCD8/KS8		S8	·
48	LCD7	0	S7	Segment output terminals.
50	LCD5		S5	
51	LCD4/KS4	0	S4	Segment output and key source terminals.
55	LCD0/KS0		SO	
56	COM1	0	COM1	Common output terminals.
57	COM2	0	COM2	
58	GND	* .	GND	
59	К3	1	. К3	Key input terminals.
62	K0		ко	
63	AD	1	SD	Station detection input terminal. Inputs "H" when a station is detected.
64	INT	I	REQ-IN	Input terminal for requests from CD-CH.

CIRCUIT DESCRIPTION

Key Matrix	,	Momentary key	Alternate key	Initial-setting	
(E type)		·		diode switch	
	K0 (No. 62)	K1 (No. 61)	K2 (No. 60)	K3 (No. 59)	
KCO (NI- FF)	DICC	SDK	DOMAN/TDACK O	LID/TDACK O	
KS0 (No. 55)	DISC	P-SEEK	DOWN/TRACK ⊖	UP/TRACK ⊕	
KS1 (No. 54)	AUTO/LOUD	LOCAL/AME	AM/DISC ⊖	FM/DISC ⊕	
KS2 (No. 53)					
KS3 (No. 52)	1/MTL	2/TU-CALL	3	4	
KS4 (No. 51)	5/REP	6/SKS			
KS8 (No. 47)	TAPE IN	FWD/REV	FF/REW	ST	
KS9 (No. 46)					
KS10 (No. 45)	BAND A				

(J, K type)

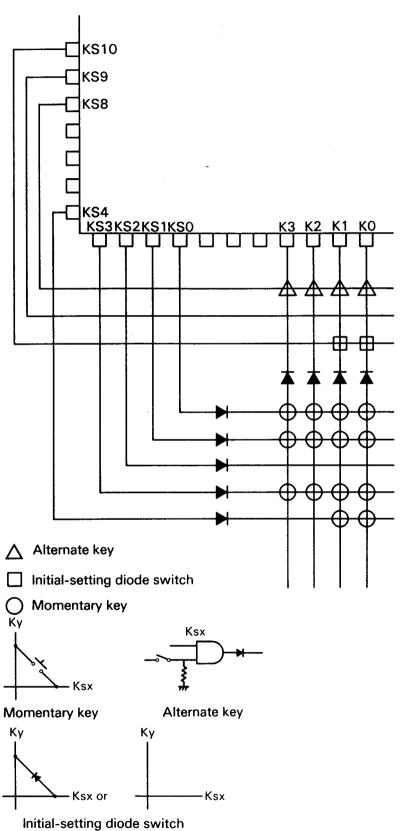
	K0 (No. 62)	K1 (No. 61)	K2 (No. 60)	K3 (No. 59)
KOO (N) 55)	5100	CLK	DOMAN TRACK O	LID/TDA OK @
KS0 (No. 55)	DISC	P-SCAN	DOWN/TRACK ⊖	UP/TRACK ⊕
KS1 (No. 54)	AUTO/LOUD	LOCAL/AME	AM/DISC ⊝	FM/DISC ⊕
KS2 (No. 53)				
KS3 (No. 52)	1/MTL	2/T-ADV (TU-CALL)*1	3/DOLBY*2	4
KS4 (No. 51)	5/REP	6		
KS8 (No. 47)	TAPE IN	FWD/REV	FF/REW	ST
KS9 (No. 46)				
KS10 (No. 45)	BAND A	BAND B		

^{*1:}J type -- 2/T-ADV, KRC-540 -- 2

^{* 2:}K type (KRC-540) -- 3

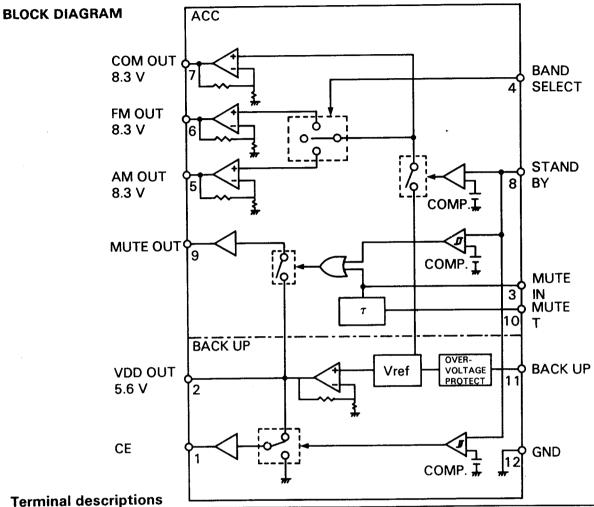
CIRCUIT DESCRIPTION

Key matrix configuration and model



CIRCUIT DESCRIPTION

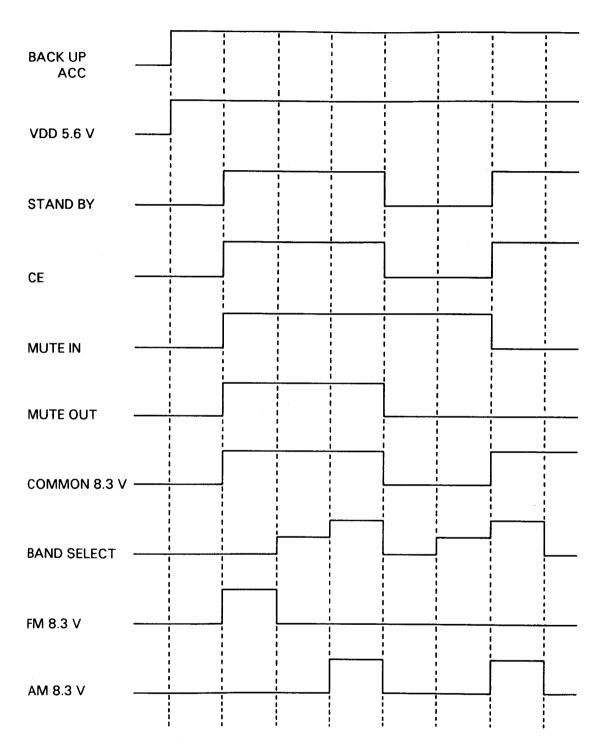
BA3906-V1 (IC11:X14-347X-XX)
Power Supply IC



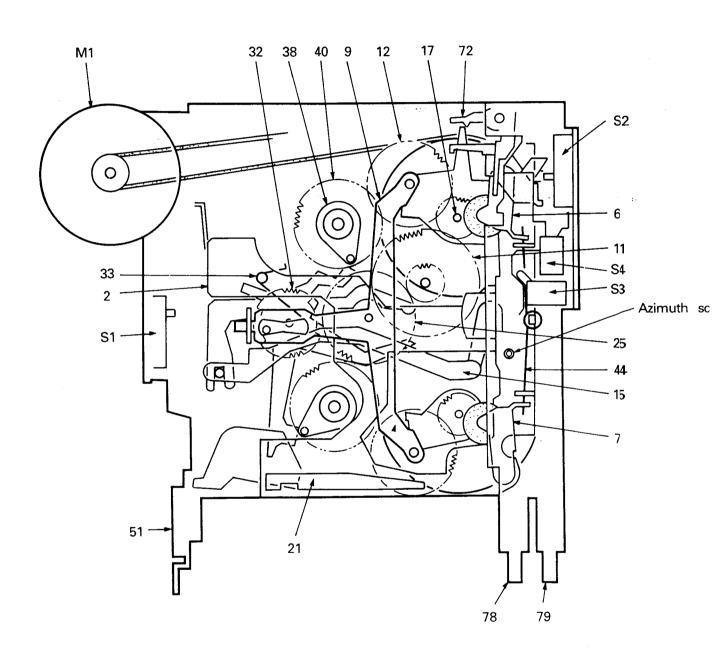
1	CE	Outputs $0.82 \times V_{PP}$ or more when the μ -COM is to be operated normally, and outputs 0 V when it is not used. Holds 0 V even during stand-by.
2	V _{DD}	$5.6V$ power supply with 60 mA max, output current. For use with μ -COM. Permanently outputs voltage provided that the backup power is connected.
3	MUTE IN	Input terminal for MUTE from μ-COM or other external sources.
4	BAND SELECT	AM/FM output selection input with 3-state input. 8.3 V power supply with 145 mA max. output current. For use in AM reception.
5	AM OUT	Outputs power when "H" is input to BAND SELECT terminal.
6	FM OUT	8.3 V power supply with 250 mA max. output current. For use in FM reception. Outputs power when "L" is input to BAND SELECT terminals.
7	COM OUT	8.3 V power supply with 125 mA max. output current. For use in tone control. The power can be used as the system common power for the volume/balance control, for the equalizer, in the casset tape deck, and for the varicap in the electronic tuner. Power is output when STANDBY terminal is 6.5 V or more, regardless of the BAND SELECT terminal position.
8	STAND BY	0 V for stand-by mode, in which signal is output only from V _{DD} terminal. The voltage at this terminal determines CE ou put and MUTE OUT output as well as AM OUT, FM OUT and COM OUT outputs.
9	MUTE OUT	MUTE transistor driver.
10	MUTE	Time constant terminal for MUTE IN.
11	BACK UP	Connected to backup power and ACC power of the vehicle.
12	GND	Input/output timing chart Ground.

CIRCUIT DESCRIPTION

Input/Output timing chart 102



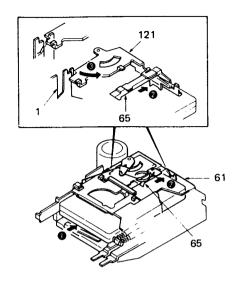
MECHANISM OPERATION DESCRIPTION



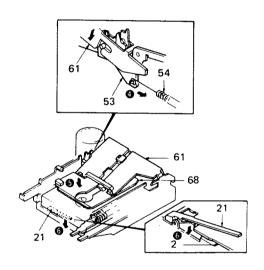
MECHANISM OPERATION DESCRIPTION

LOADING/PLAY

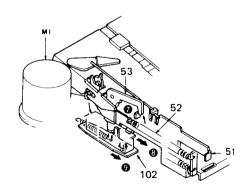
- 1. Insert a cassette tape (1).
- 2. The cassette guide (65) pushes to lever (reverse [121]) (2).
- 3. The lever (reverse [121]) turns in the direction of the arrow and releases the lock of the holder (action plate [61]) (3).



- 4. Through the lock release of the lever (reverse [121]), the arm (action [53]) is pulled by the tension spring (54), which turns the holder (action plate [61]). The holder (action plate) descends (4).
- 5. Through the descent of the holder (action plate [61]), the holder (cassette case [68]) also descends (3).
- 6. As the holder (cassette case [68]) descends, the cassette tape pushes the lever (lock plate [21]). The lever (lock plate [21]) then releases the lock of the lever assembly (head plate [2]) ().

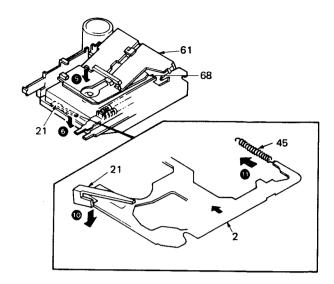


- 7. As the arm (action [53]) turns, the lock of the lever assembly (eject [51]) is released ().
- 8. The lever assembly (eject [51]) is pulled by the tension spring (52) and moves forward (3).
- 9. Through the movement of the lever assembly (eject [51]), the lever (102) also moves forward and turns on the slide switch S1. As the slide switch S1 is turned on, electricity is supplied to the motor assembly (M1) (3).

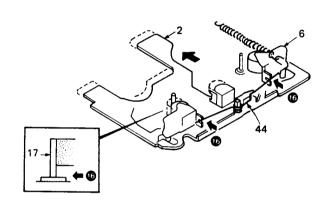


MECHANISM OPERATION DESCRIPTION

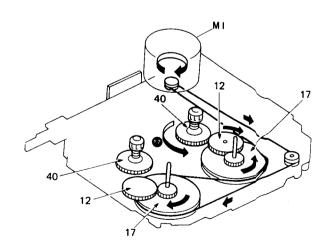
- 10. As the holder (cassette case [68]) descends, the cassette tape pushes the lever (lock plate [21]) then releases the lock of the lever assembly (head plate [2]) (10).
- 11. The lever assembly (head plate [2]) is pulled by the tension spring (45) and moves forward (11).



12. Through the forward movement of the lever assembly (head plate [2]), pinch roller assembly (6) make close contact with the shaft of the flywheel (17) through the formed wire spring (44) (16).



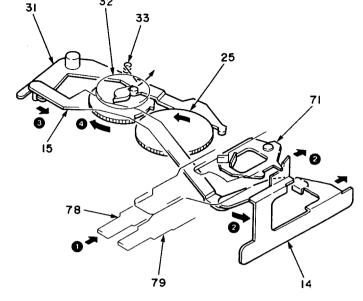
13. The rotation is transmitted from each gear (17-12) to the reel base (40) of the take-up side (17).



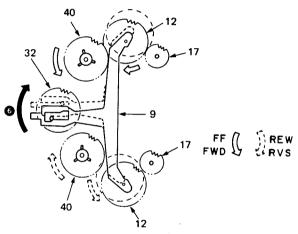
MECHANISM OPERATION DESCRIPTION

PROGRAM

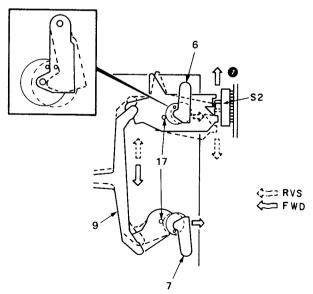
- 1. Push the FF and REW levers simultaneously (1).
- 2. The arm assembly (15) moves toward the right (2).
- 3. The lever (31) is pulled (3), and the changeover gear (32) is unlocked.
- 4. The changeover gear is pushed by the torsion spring (33), and engaged with the cam gear (25) (4).
- 5. The changeover gear (32) is rotated by a half turn and locked with the Jever (31) again.



6. The movement of the boss of the changeover gear (32) moves the changeover arm (9) (6).



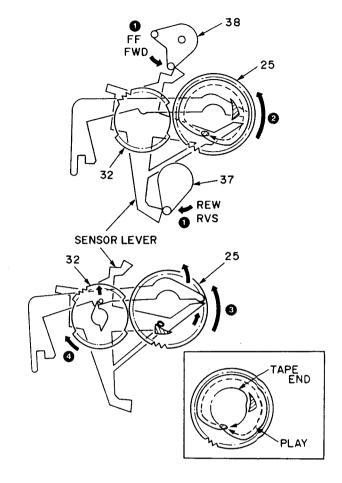
7. When the changeover arm (9) moves, the drive direction of the reel base (40), head switch (S2) and pinch roller is switched between FWD and RVS (1).



MECHANISM OPERATION DESCRIPTION

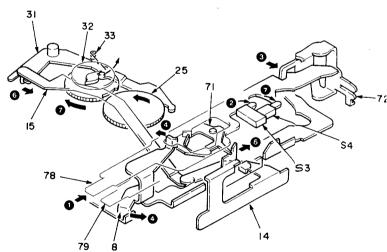
AUTO REVERSE

- 1. When the reel base (40) stops rotation at the end of tape, the arm (38) stops pushing the sensor lever (1).
- 2. The sensor lever is engaged with the cam projection of the cam gear (25) and carried until the intermediate point of the cam gear (2).
- 3. Then, the sensor lever is carried by the triangular boss of the cam gear (25) and pushes the lock lever (3).
- 4. When the lock lever is pushed, the changeover gear rotates and the program operation starts (4).



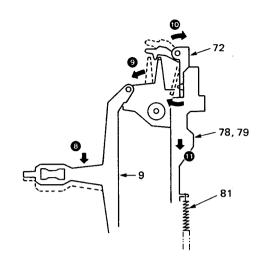
REW

- 1. Push the lever REW (78) (1).
- Pushing the lever REW (78) closes the leaf switch (S3) and muting is applied (2).
- 3. The lever REW (78) is locked by the arm (72) (3).
- 4. By pushing the lever REW (78), the lever (8) is pushed in the direction of arrow (4).
- 5. Through being pushed, the lever (8) moves the lever assembly (head plate [2]) backward a little (5). Through the backward movement of the lever assembly, the playback head (HD1) and pinch roller (7) also moves backward a little.
- This time, the lever REW (78) moves the arm assembly (15) and PROGRAM operation is engaged (6).
- 7. The rotation of the reel base (40) is high-speeded by the speed selector switch (S4) ().



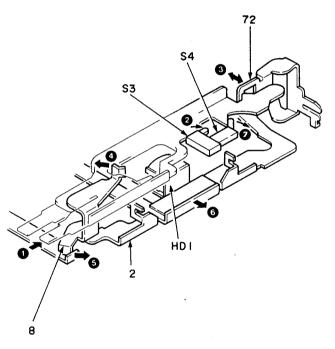
MECHANISM OPERATION DESCRIPTION

- 8. At the tape end during the operation of REW, the end sensor is activated, and the changeover arm (9) moves the arm (72) during the operation of PROGRAM (3) (9) (10). The lever REW (78) is released (11).
- 9. To release REW, slightly depress the lever FF (79).
- 10. By depressing the lever FF (79), the arm (72) moves, and the lever REW (78) returns by the tension spring (81) (1).



FF

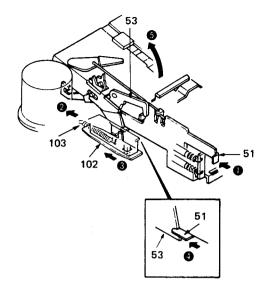
- 1. Push the lever FF (79) (1).
- 2. Pushing the lever FF (79) closes the leaf switch (S3) and muting is applied (2).
- 3. The lever FF (79) is locked by the arm (72) (3).
- 4. By pushing the lever FF (79), the lever (8) is pushed in the direction of arrow (4).
- 5. Through being pushed, the lever (8) moves the lever assembly (head plate [2]) backward a little (5). The playback head (HD1) and pinch roller also moves backward a little.
- 6. The rotation of the reel base (40) is high-speeded by the speed selector switch (S4) (6).



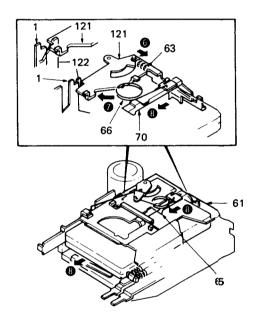
MECHANISM OPERATION DESCRIPTION

EJECT

- 1. Push the lever assembly (eject [51]) (1).
- 2. By pushing the lever assembly (eject [51]), the tension spring (103) pushes the lever (102) (2).
- 3. Though pushing the lever (102), the slide switch (S1) is turned off, and the lever assembly (head plate [2]) moves backward (3).
- 4. The lever assembly (eject [51]) pushes and turns the arm (action [53]) ().
- 5. By turning, the arm (action [53]) pushes up the holder (action plate [61]) (5).



- 6. When the holder (action plate [61]) is pushed up, the lever (reverse [121]) is pulled by the tension spring (63) and turns (6).
- 7. In turning, the lever (reverse [121]) is put on the lever of the mechanism chassis (122) (7).
- 8. The cassette guide (65) is pushed forward by the torsion coil spring (66), and the cassette tape is ejected (3).



ADJUSTMENT

Set the controls and switches as follows.

BALANCE :center position LOUD

:0FF

LOCAL :OFF

FADER

center position: :center position

T · ADV :OFF METAL :OFF

:OFF AUTO

BASS

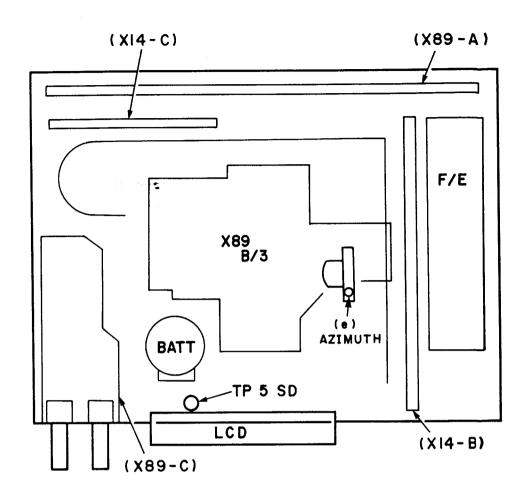
TREBLE :center position

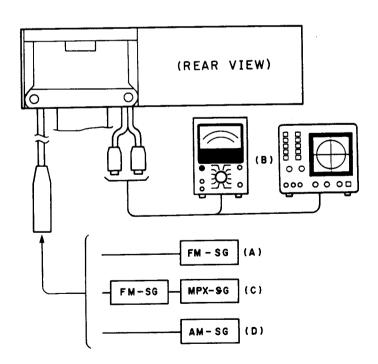
DOLBY NR : OFF

	INPUT	OUTPUT	TUNER(RECEIVER)	ALIGNMENT		
ITEM	SETTINGS	SETTINGS	SETTINGS	POINTS	ALIGN FOR	FIG.
SECT	ION					
DISCRI-	(A) 98. 1MHz	Connect the DC voltmeter	FM 08 1MHz	T1 (X14 B/3)	ΩV	(a)
MINATUR	60dBμ(ANT input)	of TP1(X14 B/3)		(114 0/0/	•	()
vco	98.1MHz 0 dev 60dBµ(ANT input)	frequency counter to TP2 (2) and GND	Connect a R(180KQ) between TP2(1)and GND	VR5 (X14 B/3)	19KHz	(b)
SEPA- RATION	(C) 98.1MHz 1kHz,±40kHz dev Pilot:±7.5kHz dev Selector:L or R 60dBµ(ANT input)	(B)	FM 98. 1MHz	VR6 (X14 B/3)	Adjust it so that the crosstalk from L to R and R to L become minimum.	
ANRC	(C) 98.1MHz 1kHz,±40kHz dev Pilot:±7.5kHz dev Selector:L or R 35dBμ(ANT input)	(B)	FM 98.1MHz Connect a lerd wire between TP3 and GND	VR4 (X14 B/3)	Separation 10dB	
SEEK STOP LEVEL	(A) 98.1MHz 1kHz,±40kHz dev 20dBµ(ANT input)	Connct the DC voltmeter to TP5(X14 A/3)	FM SEEK:ON 98.1MHz	VR3 (X14 B/3)	Low → High(Voltage) (Seek stop)	(c)
SECTION	(KRC - 453D Only)					
DK LEVEL	(E) 98.1MHz 0 mod SK 5.33% DK 30% BK 60% 60dBµ(ANT input)	Connect a AC voltmeter to TP6 (X14 A/3)	FM 98. 1MHz SDK:OFF	L6 VR8 (X14 A/3)	Maximum	(d)
SECT						
SEEK STOP LEVEL		I	MW 999kHz	VR7 (X14 A/3)	Low → High(Voltage) (Seek stop)	
SSETT	E DECK SEC	TION	T	1		
AZIMUTH	MTT-114 10kHz	(B)	TAPE PLAY	Head Azimuth Screw	Adjust the azimuth for each L CH/R CH or FWD/RVS becomes maximum.	(e)
	SECT DISCRI- MINATOR VCO SEPA- RATION ANRC SEEK STOP LEVEL SECTION DK LEVEL SECTON SEEK STOP LEVEL SECTON	SECTION	ITEM SETTINGS SETTINGS SECTION (A) Connect the DC voltmeter between pins of TP1(X14 B/3) (A) Connect a frequency counter to TP2 (2) and GND (C) 98. 1MHz SEPA- 1kHz, ±40kHz dev Pilot:±7. 5kHz dev Selector:L or R 60dBμ(ANT input) (C) 98. 1MHz 1kHz, ±40kHz dev Pilot:±7. 5kHz dev Selector:L or R 35dBμ(ANT input) (C) 98. 1MHz 1kHz, ±40kHz dev Pilot:±7. 5kHz dev Selector:L or R 35dBμ(ANT input) (C) 98. 1MHz 1kHz, ±40kHz dev DC voltmeter to TP5 (X14 A/3) SEEK 98. 1MHz Connect the DC voltmeter to TP5 (X14 A/3) SECTION (KRC - 453D Only) (E) 98. 1MHz Connect a AC voltmeter to TP6 (X14 A/3) SECTION (KRC - 453D Only) (E) 98. 1MHz Connect a AC voltmeter to TP6 (X14 A/3) SECTION (SECTION CONNECT AND C	TIEM	TITEM	TEM

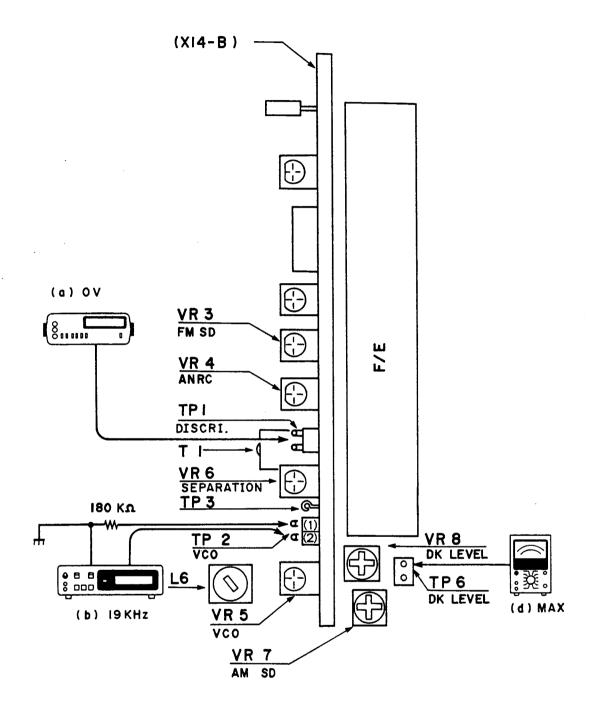
KRC-453D/∟/N

ADJUSTMENT

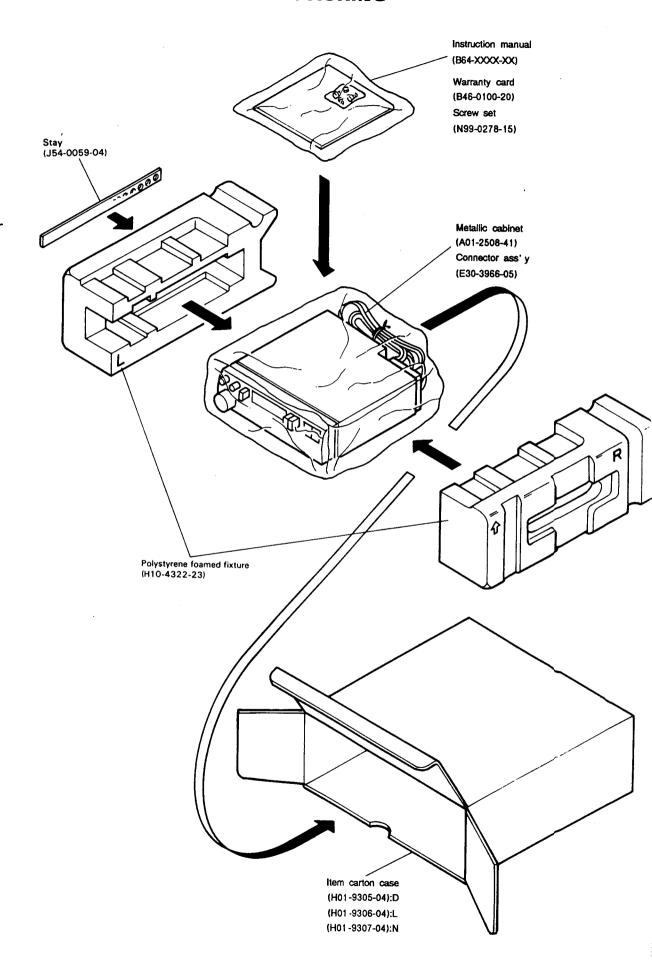




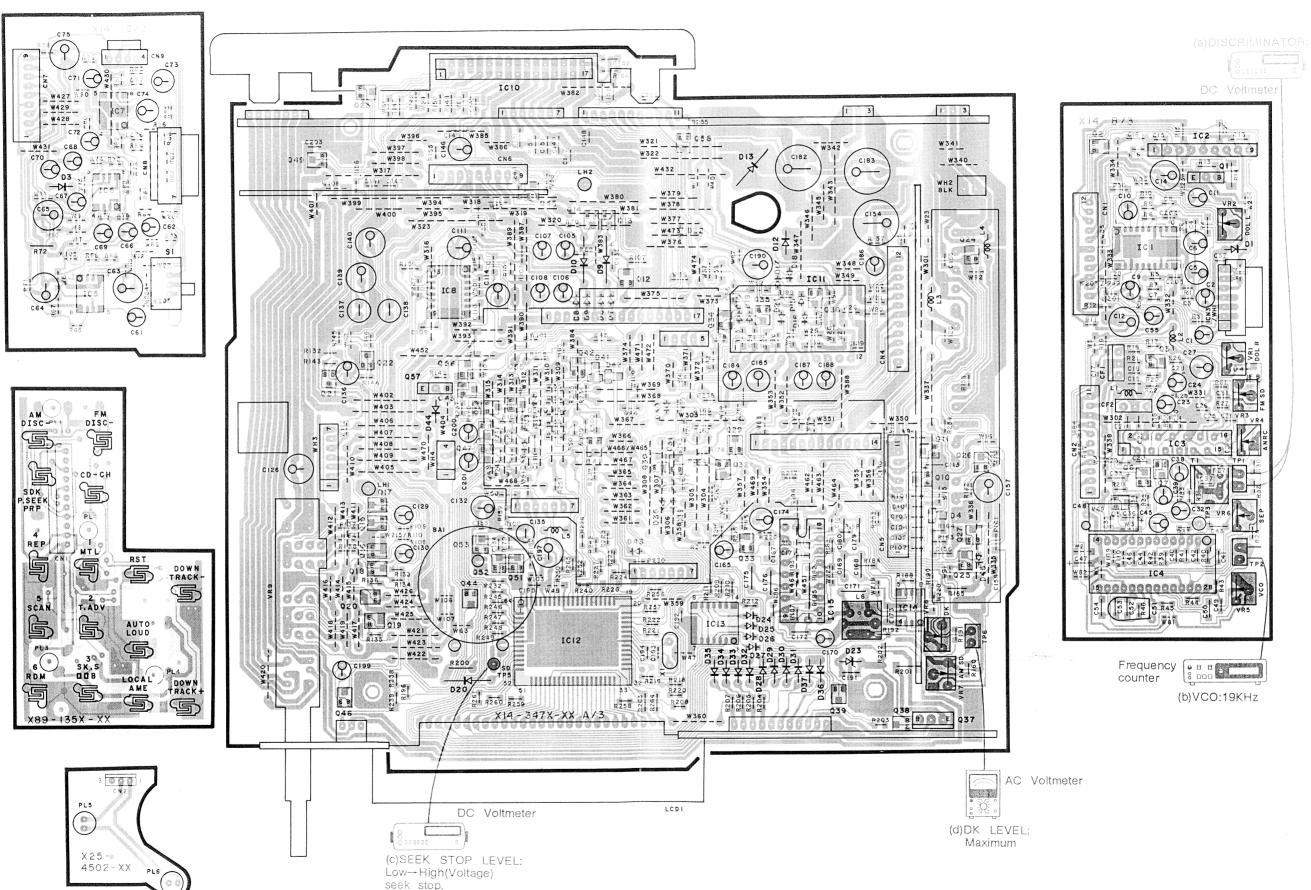
ADJUSTMENT



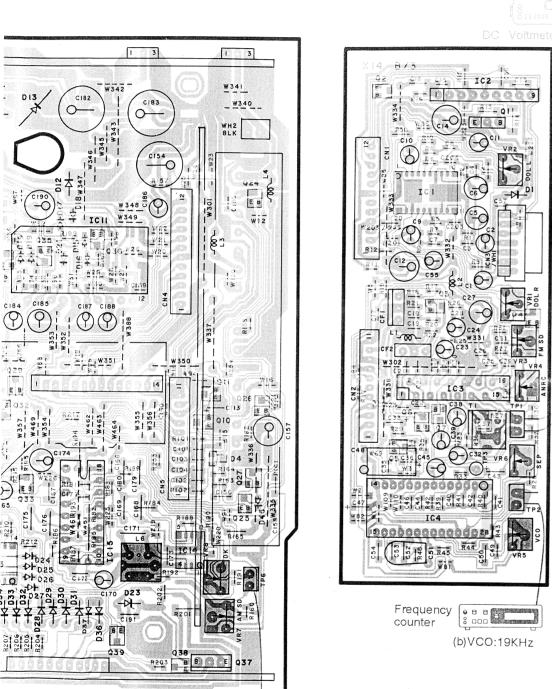
PACKING



PC BOARD (Component side view)



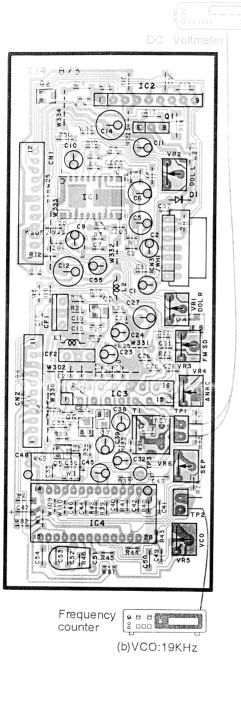
Ref	.No.	Address
IC	Q	
	4	2J
	5	41
	6	41
	7	4 1
	10	4H
	11	4H
	12	3E
	13	3E
	14	2E
	17	4D
	18	5D
	19	5D
	20	5D
	21	3D
	22	3D
	23	1D
	24	3H
	25	5H
	26	4H
	27	5H
	29	4C
	30	4F
	31	4F
	32	4F
	33	5F
	34	3F
	35	3F
	36	3G
	37	6H
	38	6G
	39	6G
	42	3E
	43	4D
	44	5D
	46	6C
	47	4D
	49	2C
	51	5E
-	52	5D
-	53	5D
-	54	4D
	55	4E
	56	3D
	57	4D
1		31
2		21
3		41
4		51
5		3B
5		2B
7		2B 2B
8		
11		3D 3G
1 2		3G 5E
		2-



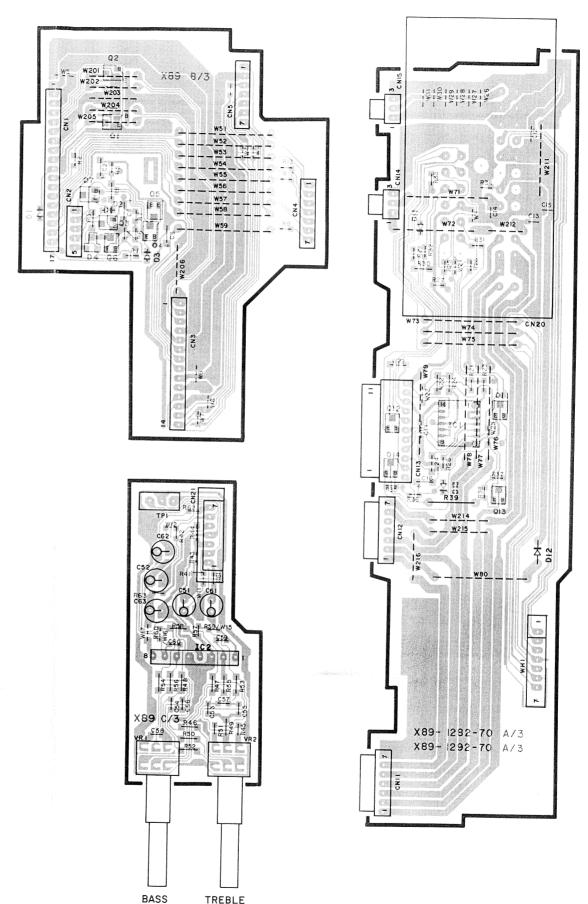
AC Voltmeter

(d)DK LEVEL Maximum

H



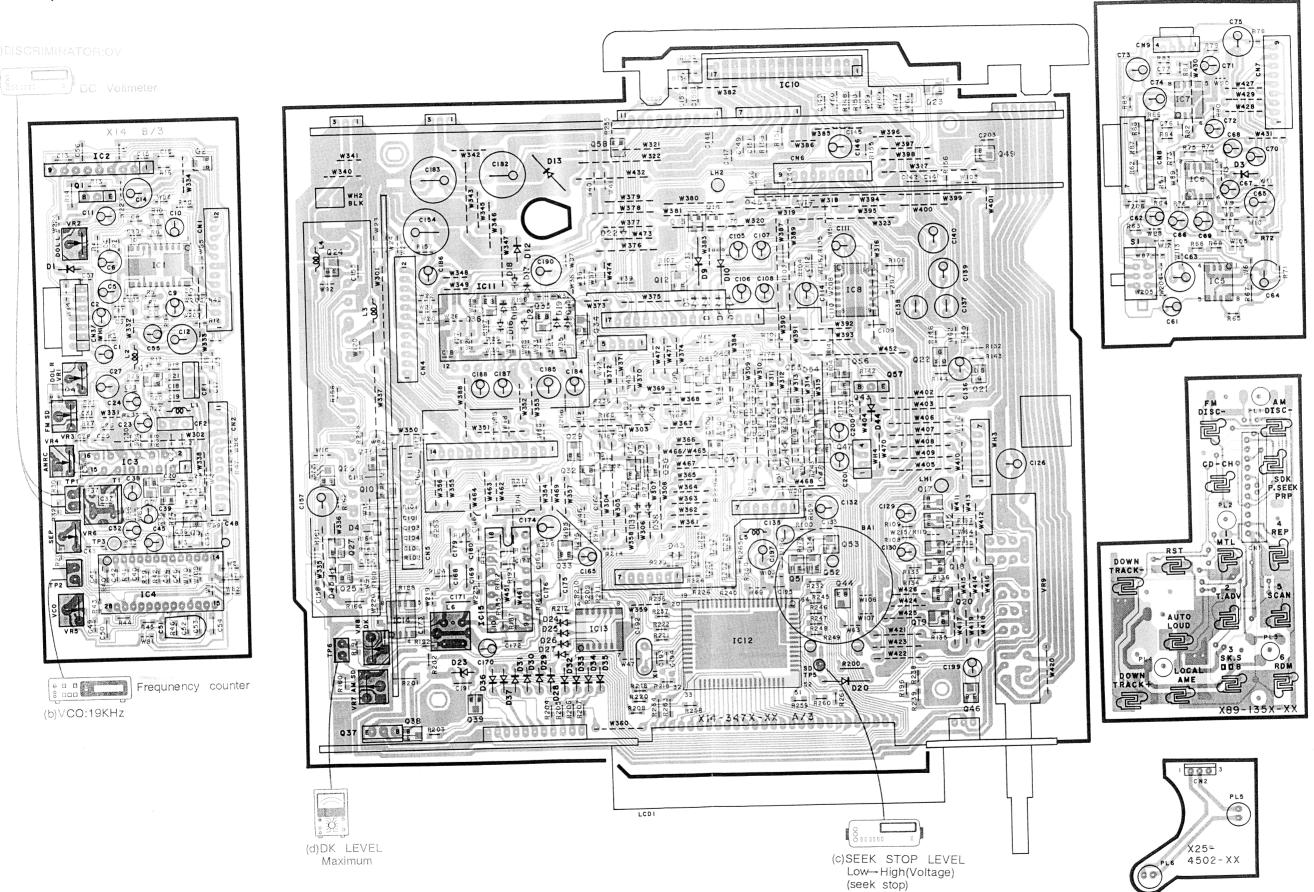
X14-347X-XX Ref.No. Address IC Q 4 5 4 | 41 6 41 10 4H 11 4H 12 3E 13 3E 14 2E 4D 18 5D 19 5D 20 5D 21 3D 22 3D 23 1D 24 ЗН 25 5H 26 4H 27 5H 29 4C 30 4F 31 4F 32 4F 33 5F 34 3F 35 3F 36 3G 37 6H 38 6G 39 6G 42 3E 43 4D 44 5D 46 6C 47 4D 49 2C 51 5E 52 5D 53 5D 54 4D 55 4E 56 3D 57 4D 31 21 41 4 51 5 3B 2B 2B 3D 3G 5E



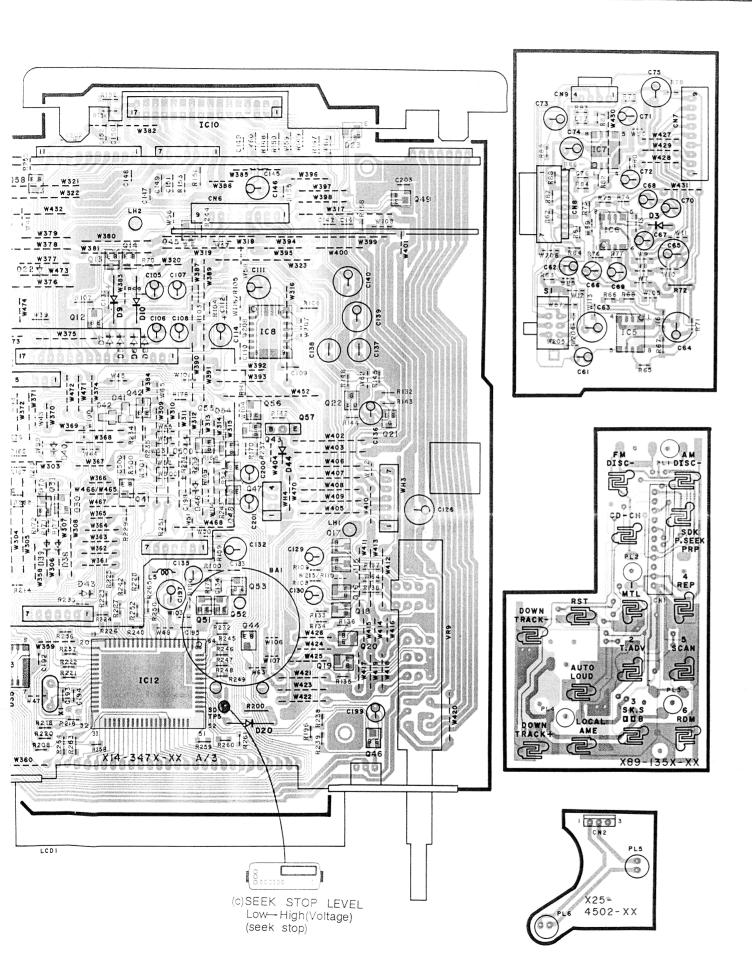
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PC BOARD (Foil side view)

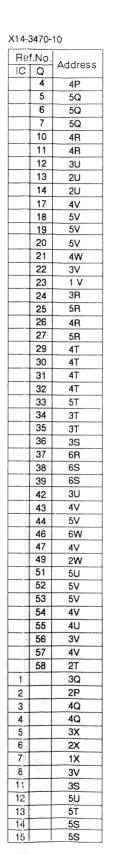
28

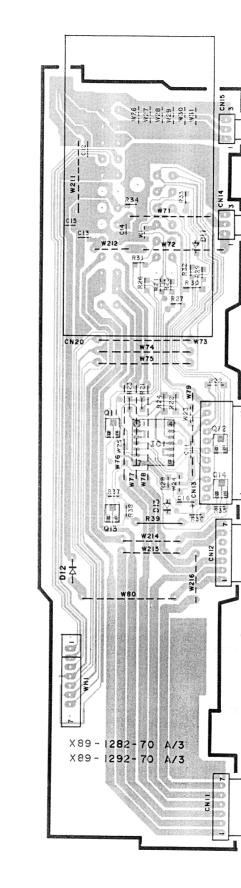


Ref.).j	Ad	dres	ss	
C	Q 4	+		4P		
-	5	+		5Q		
\dashv	6	+		5Q		
+	$\frac{\sigma}{7}$	+		5Q		
+	10	-+		4R		
\dashv	1	-		4R		1
+	12	-		3U		1
+	13	-		2U		1
\dashv	1	-		2U		1
-	1	-		4V		1
-	1	_		5V		1
-	1	-		5V		1
		0		5V		7
_	2	-+		4W		1
	-	2		3V		1
	-	3		1 V		1
	+	4		3R		7
	-	5		5R		1
	+-	6		4R		٦
	+	7		5R		٦
	2	29		4T		
	+	30		4T		
	-	31		4T		
	1	32		4T		
	-	33		5T		
		34	Г	3T		_
_	-	35		3T		
	1	36	T	35	3	
_	1	37	T	6F	}	
_	\dagger	38	T	65	3	
	1	39	Γ	65	3	
	T	42		3L	J	
	-	43	T	4\	/	
		44	T	5\	/	
	T	46	T	6\	Ν	
		47	T	4\	/	
		49		2١	Ν	
		51		51	J	
	\prod	52		5\		
		53		5		
		54	1	4		
	4	55	1	4		
		56	_		V *	
	4	57	-		<u>V</u>	
	_	58	1		T	
_	1		+		Q	
_	2	_	-		P	
	3		-		Q Q	
	4	_	-		XX	
	5	_	-			
	6	_	-		2X	_
	7	-	_		X	
	8	-			3V	
	11	-			3S_	_
	12	-			5U_	
	13	-			5T 5S	
	14 15	-			5S_	
1						

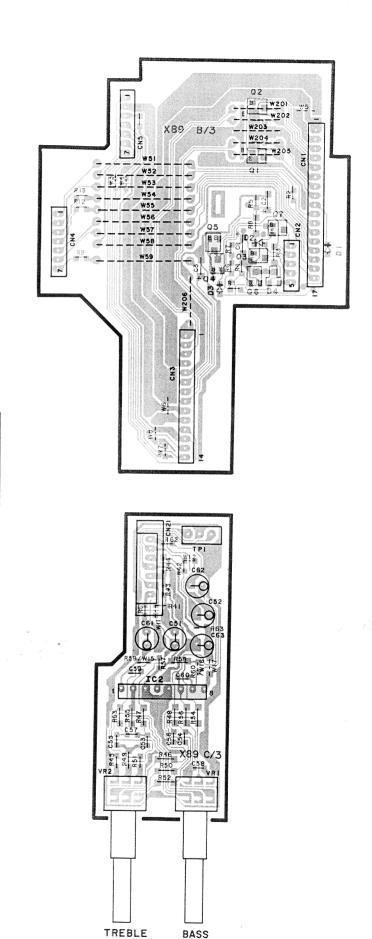


w



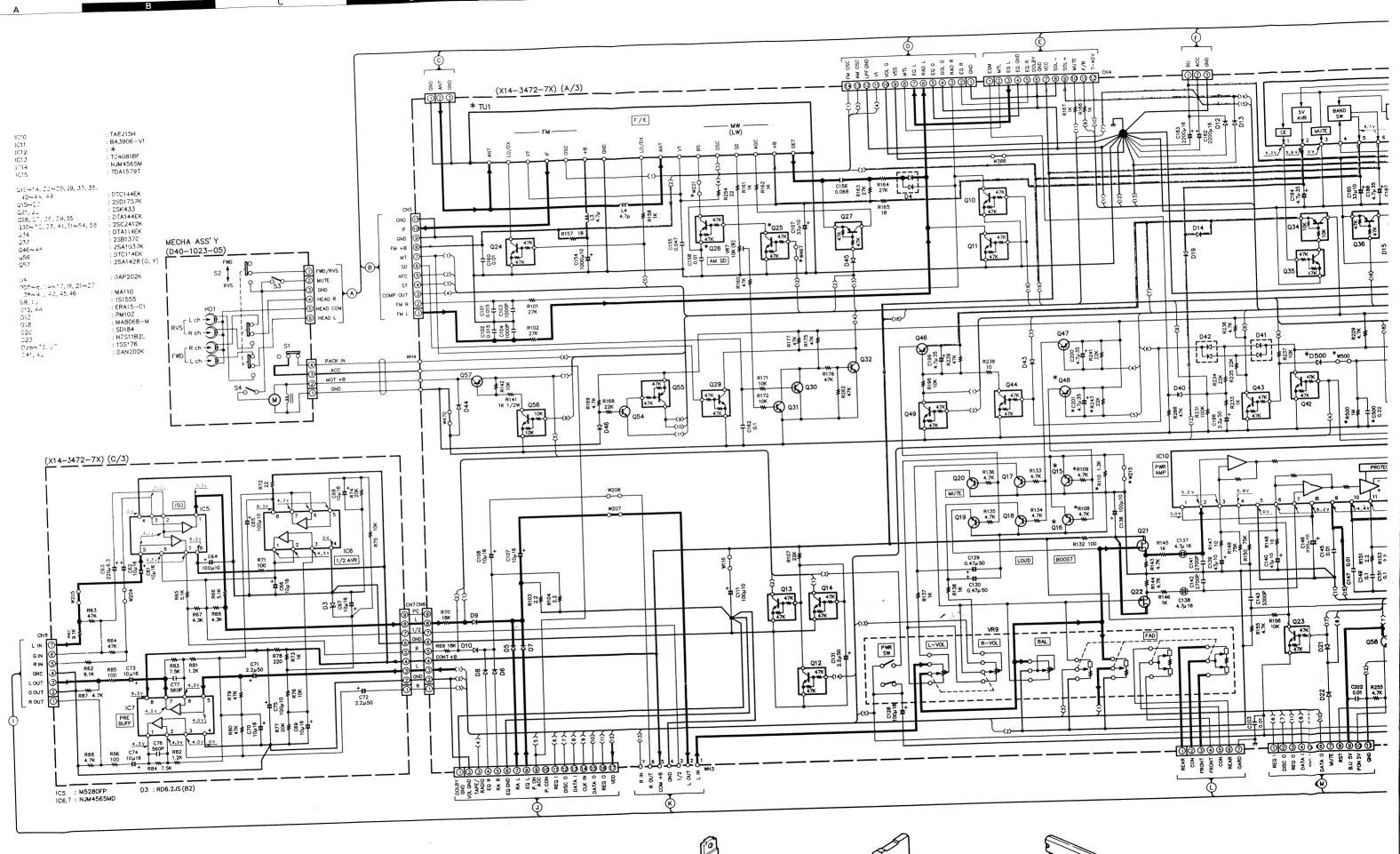


AA



AC

U





DTA114EK DTC114TK 2SC2412K DTA144EK DTC144EK 2SD1757K DTC114EK 2SA1037K



2SC2413K



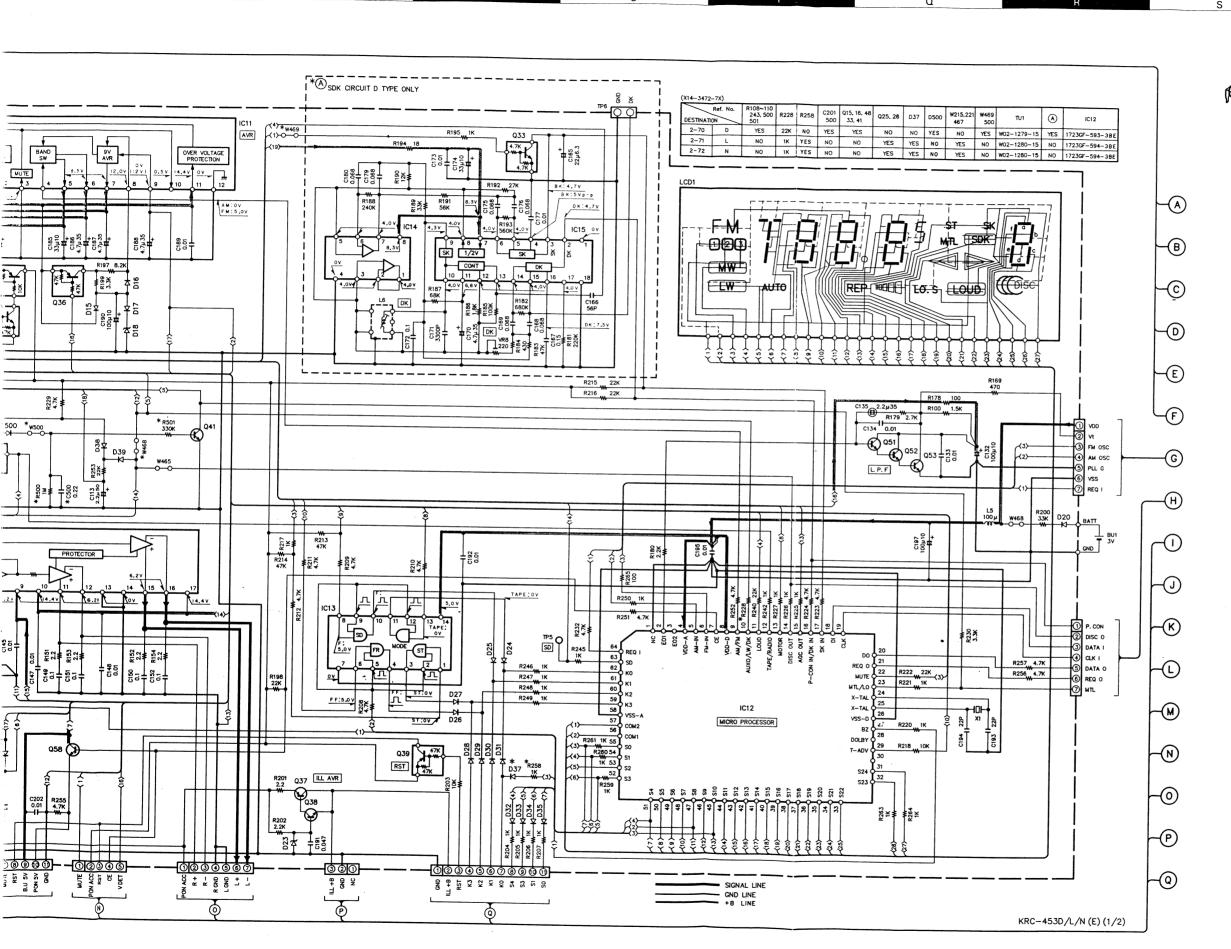
2SB1370

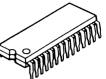


2SA1428



LA1140

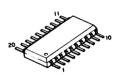








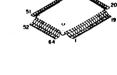
2SK433



BA3424F



TDA1579



M5280FP

NJM4565M

NJM4565MD

TC4081BF

TC74HCO04AF

1723GF-593-3BE 1723GF-594-3BE



TA8215H



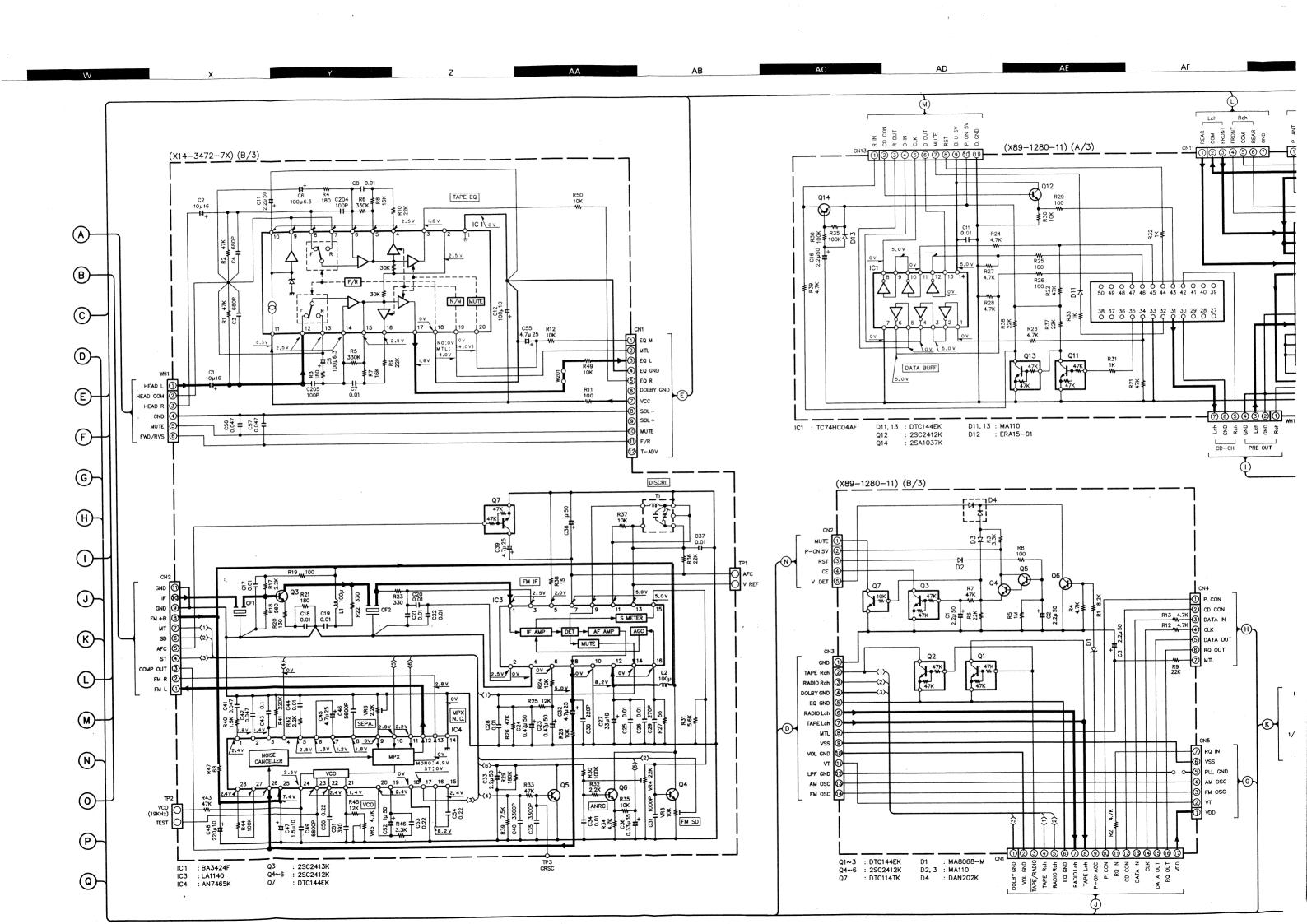
NJM4565L-D

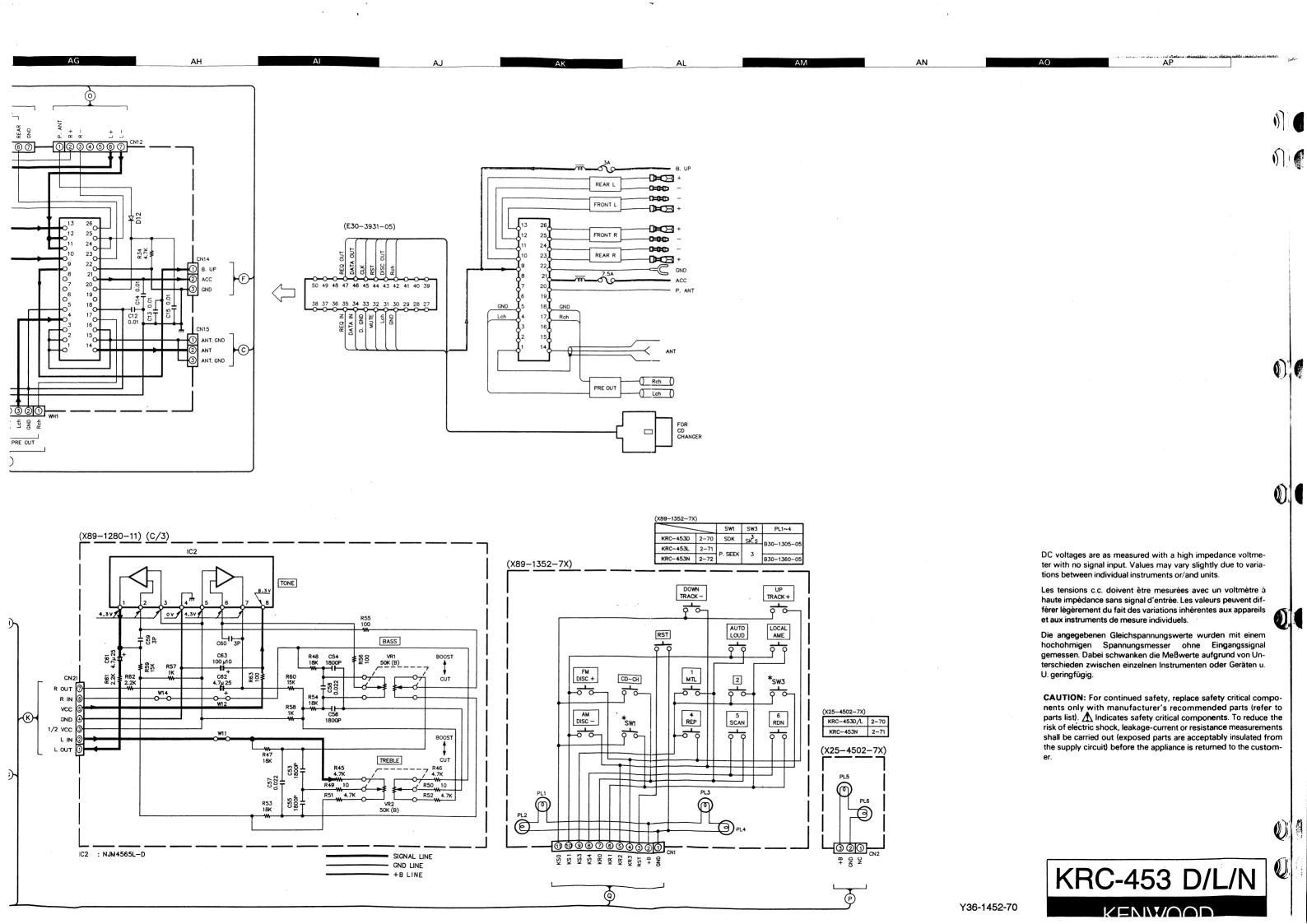
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended pirts (refer to parts list). A Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned tothe e customer.

DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

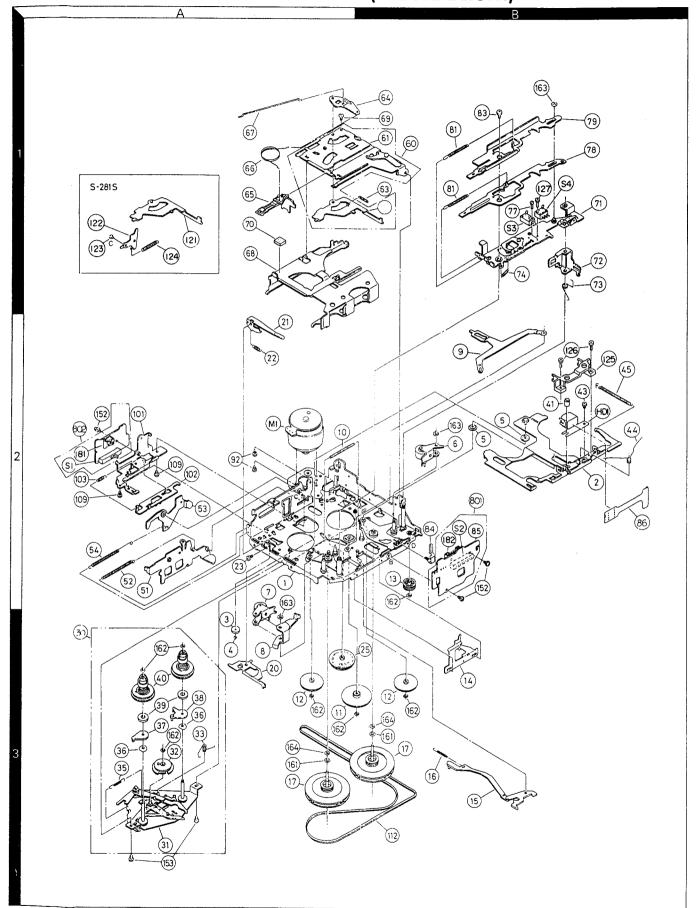
Les tensions c.c. doivent être mesurées avec un votranètre à haute impédance. Les valeurs peuvent différer légèrament du fait des variations inhérentes aux appareils et aux insiruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden nit einem hochohmigen Spannungsmesser gemessen. Dabei i⊂ hwanken die Meßwerte aufgrund von Unterschieden zwish en einzelnen Instrumenten oder Geräten u. U. geringfügig.



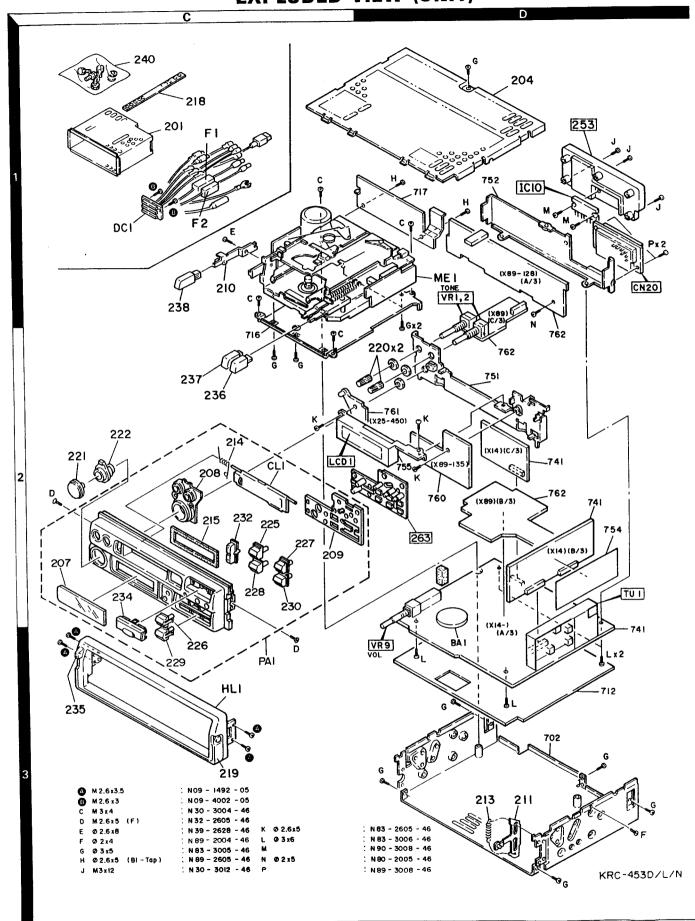


EXPLODED VIEW (MECHANISM)



Parts with the exploded numbers larger than 700 are not supplied.

EXPLODED VIEW (UNIT)



Parts with the exploded numbers larger than 700 are not supplied

PARTS LIST

★ New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnes dans le Parts No. ne sont pas fournis.

Telle ohne Parts No. werden nicht geliefert.

Ref. No.	Address	New Parts	Parts No.	Description	Desti- nation	Re-		
参照番号	位置	新	部品番号	部品名/規格		marks 備考		
KRC-453-D/L/N								
201 204 CL1 PA1 PA1	1C 1C,1D 2C 2C 2C 2C	* * * *	A01-2508-41 A52-0625-22 A53-1534-03 A20-7698-02 A20-7700-02	METALLIC CABINET TOP COVER CASSETTE LID PANEL ASSY PANEL ASSY	D L			
PA1	2C	*	A20-7770-02	PANEL ASSY	N			
207 207 207 208 209	2C 2C 2C 2C 2C 2C	* * * * *	B10-1421-03 B10-1422-03 B10-1466-03 B19-0883-02 B19-0884-02	FRONT GLASS FRONT GLASS FRONT GLASS LIGHTING BOARD LIGHTING BOARD	D L N			
		* * *	B46-0100-20 B46-0182-04 B64-0123-00 B64-0124-00 B64-0131-00	WARRANTY CARD ID CARD INSTRUCTION MANUAL (F,D) INSTRUCTION MANUAL (E,F) INSTRUCTION MANUAL (H,1,SP)	D D L.N L.N			
HL1	3C		B07-2014-42	ESCUTCHEON ASSY				
210 ME1	1C 1C,1D		D10-2522-14 D40-1023-05	LEVER CASSETTE MECHANISM ASSY				
DC1	1C		E30-3966-05	CONNECTOR ASSY				
F1 F2	1C 1C		F05-7521-05 F06-3026-05	FUSE (7.5A, ACC) FUSE (3A, B.U.)				
213 215	3D 2C	*	G01-2040-04 G11-1510-04	EXTENSION SPRING CUSHION				
- - - -		* * * *	H01-9305-04 H01-9306-04 H01-9307-04 H03-3362-04 H03-3363-04	ITEM CARTON CASE ITEM CARTON CASE ITEM CARTON CASE OUTER CARTON CASE OUTER CARTON CASE	D L N D L			
- - -		*	H03-3364-04 H10-4322-23 H25-0329-04 H25-0336-04	OUTER CARTON CASE POLYSTYRENE FOAMED FIXTURE PROTECTION BAG (280X450X0.03) PROTECTION BAG (170X250X0.03)	N			
218	1C		J54-0059-04	STAY				
219 220 221 222 225	3C 2D 2C 2C 2C 2C	* * * *	K01-0601-03 K23-1011-04 K23-1012-03 K23-1013-03 K24-0907-03	HANDLE KNOB (TONE) KNOB (VOL) KNOB (FAD) KNOB (P1)				
226 227 228 229 230	3C 2C 2C 3C 2C	* * * *	K24-0908-03 K24-0909-03 K24-0910-03 K24-0911-03 K24-0912-03	KNOB (P2) KNOB (P3) KNOB (P4) KNOB (P5) KNOB (P6)				
232 234 235 236 237	2C 3C 3C 2C 2C	* * * *	K25-0591-03 K25-0592-03 K27-3510-04 K27-3523-04 K27-3524-04	KNOB (AM,FM) KNOB (TUNE) KNOB (LEVER) KNOB (BUTTON)(FF) KNOB (BUTTON)(REW)	D, N			
D:KRC-4530					l	L		

D:KRC-453D

L:KRC-453L

* New Parts

PARTS LIST

Parts without Parts No. are not supplied.

Les articles non mentionnes dans le Parts No. ne sont pas fournis.

Telle ohne Parts No. werden nicht geliefert.

Ref. No.	Address			Description	Desti- Re-
参照番号	位置	Parts 新	部品番号	部品名/規格	nation marks 仕 向備考
238	2C	*	K27-3525-04	KNOB (BUTTON)(EJECT)	
240 - - A B	1C 3A 1C		N99-0278-15 N19-2002-05 N32-2008-45 N09-1492-05 N09-4002-05	SCREW SET CORRUGATED WASHER FLAT HEAD MACHIN SCREW MACHINE SCREW (2.6X3.5) STEPPED SCREW (M2.6X3)	
C D E F G	1C,1D 2C 1C 2C 1D,3D		N30-3004-46 N32-2605-46 N39-2628-46 N89-2004-46 N83-3005-46	PAN HEAD MACHIN SCREW FLAT HEAD MACHIN SCREW PAN HEAD MACHIN SCREW BINDING HEAD TAPTITE SCREW PAN HEAD TAPTITE SCREW	
н	1 D		N89-2605-46	BINDING HEAD TAPTITE SCREW	
BA1	3D		W09-0726-05	BATTERY	
		····		R UNIT (X14-347X-XX)	
LCD1	2D	*	B38-0544-05	LIQUID CRYSTAL	
C1 ,2 C3 ,4 C5 ,6 C7 ,8 C11			CE04NW1H010M CK73FB1H681K CE04NW0J101M CK73FB1H103K CE04NW1H2R2M	ELECTOR	
C12 C17 -22 C23 ,24 C25 ,26 C27			CE04NW1A101M CK73FB1H103K CE04NW1HR47M CK73FB1H103K CE04NW1A330M	ELECTRO 100UF 10WV CHIP C 0.010UF K ELECTRO 0.47UF 50WV CHIP C 0.010UF K ELECTRO 33UF 10WV	
C28 C29 C30 C31 C32			CK73FB1H103K CK73FB1H271K CK73FB1H221K CK73FB1H102K CE04NW1E4R7M	CHIP C 0.010UF K CHIP C 270PF K CHIP C 220PF K CHIP C 1000PF K ELECTRO 4.7UF 25WV	
C33 C34 C35 C36 C37			C92-0005-05 CK73FB1H103K CK73FB1H332K C92-0502-05 CK73FB1H103K	ELECTRO 2.2UF 6.3WV CHIP C 0.010UF K CHIP C 3300PF K ELECTRO 0.33UF 35WV CHIP C 0.010UF K	
C38 C39 C40 C41 ,42 C43			CE04NW1H010M CE04NW1E4R7M CK73FB1H332K CK73FB1E473KTA CK73EB1E104K	ELECTOR 1.0UF 50WV ELECTRO 4.7UF 25WV CHIP C 3300PF K CHIP C 0.047UF K CHIP C 0.10UF K	
C44 C45 C46 C47 C48			CK73FB1H103K CE04NW1E4R7M CK73FB1H562K C92-0501-05 CE04DW1A221M	CHIP C 0.010UF K ELECTRO 4.7UF 25WV - CHIP C 5600PF K CHIP-TAN 1.5UF 6.3WV ELECTRO 220UF 10WV	
C49 C50 C51 C52 C53 ,54			CK73FB1H682K C93-0025-05 CQ92P2A391J CK73EB1E104K C93-0025-05	CHIP C 6800PF K CERAMIC 0.22UF K MYLAR 390PF J CHIP C 0.10UF K CERAMIC 0.22UF K	
C55 C56			CE04NW1E4R7M CK73EB1H473K	ELECTRO 4.7UF 25WV CHIP C 0.047UF K	

D:KRC-453D

L:KRC-453L

PARTS LIST

* New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnes dans le Parts No. ne sont pas fournis.

Telle ohne Parts No. werden nicht geliefert.

Address		Parts No.	Desc	ription			Re-
位 置	Parts 新	部品番号	部品名	名/規ジ	格		marks 備考
		CK73FB1E473KTA C90-2554-05 C90-2546-05 C90-2550-05 C90-2554-05	ELECTRO 1 ELECTRO 2 ELECTRO 1	0UF 20UF 00UF	K 16WV 6.3WV 10WV 16WV		
		C90-2557-05 C90-2536-05 C90-2550-05 CK73FB1H561K CK73FB1H153K	ELECTRO 1 ELECTRO 1 CHIP C 5	OUF OOUF 60PF	50WV 16WV 10WV K		
		CK73FB1H102K C90-2599-05 CE04CW1A101M C92-0005-05 CE04DW1C101M	ELECTRO 4 ELECTRO 1 ELECTRO 2	.7UF 00UF .2UF	K 25WV 10WV 6.3WV 16WV		
		C90-2606-05 C92-0005-05 CE04CW1A101M CK73FB1H103K C90-2525-05	ELECTRO 2 ELECTRO 1 CHIP C 0	.2UF 00UF .010UF	50WV 6.3WV 10WV K 35WV		
		CE04CW1A101M C90-2524-05 CE04CW1A470M CK73FB1H272K CK73FB1H332K	NP-ELECT 4 ELECTRO 4 CHIP C 2	.7UF 7UF 700PF	10WV 16WV 10WV K K		
		CK73EB1H103K CE04DW1A221M CK73FB1H103K CK73EB1E104K CE04DW1A102M	ELECTRØ 2 CHIP C 0 CHIP C 0	20UF .010UF .10UF	K 10WV K K 10WV		
		CK73FB1E473KTA CK73EB1E683K CE04CW1A330M CK73FB1H103K CK73FB1H103K	CHIP C 0 ELECTRO 3 CHIP C 0	.068UF 3UF .010UF	K K 10WV K K		
		CK73EB1E104K CE04CW0J220M CC73FSL1H560J CK73DB1H154K C91-2006-05	ELECTRO 2 CHIP C 5 CHIP C 0	2UF 6PF .15UF	K 6.3WV J K 50WV	D D D	
		CE04CW1V4R7M CQ93AP2A332J CK73EB1E104K CK73EB1H103K CE04CW1A330M	POLYPRO 3 CHIP C 0 CHIP C 0	300PF .10UF .01UF	35WV J K K 10WV	0 0 0 0	
		C91-2006-05 CK73FB1H103K C91-2006-05 C90-2537-05 CE04CW1V4R7M	CHIP C 0 ELECTRO 0 ELECTRO 2	.010UF .068UF 200UF	50WV K 50WV 16WV 35WV	D D D	
		CE04CW1A330M CE04CW1V4R7M CK73FB1H103K CE04CW1A101M CK73EB1H473K	ELECTRO 4 CHIP C 0 ELECTRO 1	.7UF .010UF 00UF	10WV 35WV K 10WV K		
			位置 新 部 品 番 号 CK73FB1E473KTA C90-2554-05 C90-2554-05 C90-2550-05 C90-2550-05 C90-2550-05 C90-2550-05 CY3FB1H153K CK73FB1H153K CK73FB1H102K CY0-2599-05 CE04CW1A101M C92-0005-05 CE04CW1A101M C92-0005-05 CE04CW1A101M CK73FB1H103K C90-2524-05 CE04CW1A101M CK73FB1H332K CK73FB1H332K CK73FB1H332K CK73FB1H332K CK73FB1H332K CK73FB1H332K CK73FB1H332K CK73FB1H03K CK73FB1H103K CK73FB1H103K CK73FB1H103K CK73FB1H103K CC04CW1A330M CK73FB1H103K CE04CW1A330M CK73FB1H103K CE04CW1A330M CK73FB1H103K CE04CW1A330M CK73FB1H103K CE04CW1A330M CK73FB1H103K CE04CW1A330M CK73FB1H103K CE04CW1A330M CY3FB1H103K CE04CW1A330M CY3FB1H103K CE04CW1A330M CY3FB1H103K CE04CW1A330M CY3FB1H103K CE04CW1A330M CY1-2006-05 CC90-2537-05 CE04CW1V4R7M	位 度	位置 新	## ## ## ## ## ## ## ## ## ## ## ## ##	位 度 かけ

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Ref. No.	Address New		Description	Desti- Re-
参照番号	位置新	· ·	部品名/規格	nation marks 仕 向備考
C192 C193,194 C195 C197 C198		CK73FB1H103K CC73FCH1H220J CK73FB1H103K C90-2579-05 C92-0005-05	CHIP C 0.010UF K CHIP C 22PF J CHIP C 0.010UF K ELECTRO 100UF 10WV ELECTRO 2.2UF 6.3WV	
C199 C200 C200,201 C202 C203		CE04NW1H2R2M CE04CW1V4R7M CE04CW1V4R7M CK73EB1H103K CK73FB1H103K	ELECTRO 2.2UF 50WV ELECTRO 4.7UF 35WV ELECTRO 4.7UF 35WV CHIP C 0.01UF K CHIP C 0.010UF K	L,N D
C204,205 C500		CC73FCH1H101J C93-0025-05	CHIP C 100PF J CERAMIC 0.22UF K	D
253	1D *	F01-1383-03	HEAT SINK	
LH1		J19-4316-05	HOLDER	
CF1 ,2 L1 ,2 L3 ,4 L5 L6		L72-0524-05 L40-1011-17 L40-4791-17 L40-1011-17 L39-0156-05	CERAMIC FILTER SMALL FIXED INDUCTOR SMALL FIXED INDUCTOR(4.7UH,K) SMALL FIXED INDUCTOR TRAP COIL	D
T1 X1		L30-0462-15 L77-1163-05	FM IFT CRYSTAL RESONATOR	
J K L M P	1D 1D 1D,3D 1D	N30-3012-46 N83-2605-46 N83-3006-46 N90-3008-46 N89-3008-46	PAN HEAD MACHIN SCREW PAN HEAD TAPTITE SCREW PAN HEAD TAPTITE SCREW TP HEAD MACHINE SCREW BINDING HEAD TAPTITE SCREW	
R1 ,2 R3 ,4 R5 ,6 R7 ,8 R9 ,10		RK73FB2A683J RK73EB2B181J RK73FB2A334J RK73FB2A163J RK73FB2A223J	CHIP R 68K J 1/10W CHIP R 180 J 1/8W CHIP R 330K J 1/10W CHIP R 16K J 1/10W CHIP R 22K J 1/10W	
R11 R12 R17 R18 R19		RK73FB2A220J RK73FB2A103J RK73FB2A222J RK73FB2A561J RK73EB2B101J	CHIP R 22 J 1/10W CHIP R 10K J 1/10W CHIP R 2.2K J 1/10W CHIP R 560 J 1/10W CHIP R 100 J 1/8W	
R20 R21 R22 ,23 R24 R25		RK73FB2A131J RK73FB2A181J RK73FB2A331J RK73FB2A103J RK73FB2A123J	CHIP R 130 J 1/10W CHIP R 180 J 1/10W CHIP R 330 J 1/10W CHIP R 10K J 1/10W CHIP R 12K J 1/10W	
R26 R27 R28 R29 R30		RK73FB2A473J RK73FB2A563J RK73FB2A100J RK73FB2A184J RK73FB2A104J	CHIP R 47K J 1/10W CHIP R 56K J 1/10W CHIP R 10 J 1/10W CHIP R 180K J 1/10W CHIP R 100K J 1/10W	
R31 R32 R33 R34 R35		RK73FB2A562J RK73FB2A222J RK73FB2A473J RK73FB2A472J RK73FB2A103J	CHIP R 5.6K J 1/10W CHIP R 2.2K J 1/10W CHIP R 47K J 1/10W CHIP R 4.7K J 1/10W CHIP R 10K J 1/10W	
R36		RK73FB2A223J	CHIP R 22K J 1/10W	

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参照番号	位 置	新	部品番号	部 品 名 /	/規格	仕 向	
R37 R38 R39 R40 R41			RK73FB2A103J RK73FB2A153J RK73FB2A752J RK73FB2A152J RK73FB2A224J	CHIP R 10K CHIP R 15K CHIP R 7.5K CHIP R 1.5K CHIP R 220K	J 1/10W		
R42 R43 R44 R45 R46			RK73FB2A222J RK73FB2A473J RK73FB2A104J RK73FB2A123J RK73FB2A332J	CHIP R 2.2F CHIP R 47K CHIP R 100F CHIP R 12K CHIP R 3.3F	J 1/10W J 1/10W J 1/10W		
R47 R49 ,50 R61 ,62 R63 ,64 R65 ,66			RK73FB2A680J RK73EB2B103J RK73FB2A912J RK73FB2A473J RK73FB2A512J	CHIP R 68 CHIP R 10K CHIP R 9.1F CHIP R 47K CHIP R 5.1F	J 1/10W		
R67 R68 R69 ,70 R71 R73			RK73EB2B432J RK73FB2A432J RK73FB2A183J RK73FB2A101J RK73FB2A101J	CHIP R 4.31 CHIP R 4.31 CHIP R 18K CHIP R 100 CHIP R 1.01	J 1/10W J 1/10W J 1/10W		
R74 R75 ,76 R77 R78 R79 ,80			RK73FB2A2O3J RK73FB2A1O3J RK73FB2A2O3J RK73FB2A221J RK73FB2A473J	CHIP R 20K CHIP R 10K CHIP R 20K CHIP R 220 CHIP R 47K	J 1/10W J 1/10W J 1/10W J 1/10W J 1/10W		
R81 ,82 R83 ,84 R85 ,86 R87 ,88 R100			RK73FB2A122J RK73FB2A752J RK73FB2A101J RK73FB2A472J RK73FB2A152J	CHIP R 1.21 CHIP R 7.51 CHIP R 100 CHIP R 4.71 CHIP R 1.51	<pre> J 1/10W J 1/10W J 1/10W </pre>		
R101,102 R103 R104 R107 R108,109			RK73FB2A273J RK73EB2B222J RK73FB2A222J RK73EB2B223J RK73FB2A472J	CHIP R 27K CHIP R 2.2 CHIP R 2.2I CHIP R 2.2K CHIP R 4.7	K J 1/8W K J 1/10W J 1/8W	D	
R110 R132 R133-136 R137,138 R141			RK73FB2A132J RK73FB2A101J RK73FB2A472J RK73EB2B102J R92-0365-05	CHIP R 1.3 CHIP R 100 CHIP R 4.7 CHIP R 1.0 CHIP R 1K	J 1/10W K J 1/10W	D	
R142 R143,144 R145,146 R147,148 R149,150			RK73FB2A103J RK73FB2A472J RK73FB2A102J RK73EB2B100J RK73EB2B753J	CHIP R 10K CHIP R 4.7 CHIP R 1.0 CHIP R 10 CHIP R 75K	K J 1/10W K J 1/10W J 1/8W		
R151-154 R155 R156 R157 R158			RK73EB2B2R2J RK73FB2A472J RK73FB2A103J RK73EB2B180J RK73FB2A102J	CHIP R 2.2 CHIP R 4.7 CHIP R 10K CHIP R 18 CHIP R 1.0	K J 1/10W J 1/10W J 1/8W		
R159 R160 R161 R162 R163,164			RK73FB2A471J RK73FB2A473J RK73EB2B102J RK73FB2A102J RK73FB2A273J	CHIP R 470 CHIP R 47K CHIP R 1.0 CHIP R 1.0 CHIP R 27K	J 1/10W K J 1/8W K J 1/10W		

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R165 R166,167 R168 R169 R171,172			RK73EI RK73EI RK73FI RK73FI RK73FI	32B 32A 32A	102J 223J 472J	CHIP R CHIP R CHIP R CHIP R	t		18 1.0K 22K 4.7K 10K	J J J J	1/8W 1/10W		
R175-177 R178 R179 R180 R181			RK73FI RK73FI RK73FI RK73FI RK73FI	32A 32A 32A	101J 272J 222J	CHIP R CHIP R CHIP R CHIP R CHIP R			47K 100 2.7K 2.2K 220K	J J J J	1/10W 1/10W 1/10W 1/10W 1/10W	D	
R182 R183 R184 R185 R186			RK73FI RK73FI RK73EI RK73EI RK73FI	32A 32B 32B	473J 431J 104J	CHIP R CHIP R CHIP R CHIP R			680K 47K 430 100K 1.8K	J J J J	1/10W 1/10W 1/8W 1/8W 1/10W	D D D D	
R187 R188 R189 R190 R191			RK73FI RK73FI RK73FI RK73FI RK73FI	32A 32A 32A	244J 333J 123J	CHIP R CHIP R CHIP R CHIP R			68K 240K 33K 12K 56K	J J J J	1/10W 1/10W 1/10W 1/10W 1/10W	D D D D	
R192 R193 R194 R195 R196			RK73FE RK73FE RK73FE RK73FE RK73FE	32A 32B 32A	564J 180J 102J	CHIP R CHIP R CHIP R CHIP R			27K 560K 18 1.0K 10K	J J J J	1/10W 1/10W 1/8W 1/10W 1/10W	D D D D	
R197 R198 R199 R201 R202			RK73FE RK73FE RK73FE R92-20 RK73FE	32A 32A 321	223J 332J -05	CHIP R CHIP R CHIP R CHIP R			8.2K 22K 3.3K 2.2 2.2K	J J J J	1/10W 1/10W 1/10W 1/2W 1/10W		
R203 R204-207 R208-212 R213,214 R215,216			RK73FE RK73FE RK73FE RK73FE RK73FE	32A 32A 32A	102J 472J 473J	CHIP R CHIP R CHIP R CHIP R CHIP R			10K 1.0K 4.7K 47K 22K]]] J	1/10W 1/10W 1/10W 1/10W 1/10W		
R217 R218 R220,221 R222 R223,224			RK73FE RK73FE RK73FE RK73FE RK73FE	32A 32A 32A	103J 102J 223J	CHIP R CHIP R CHIP R CHIP R CHIP R			1.0K 10K 1.0K 22K 4.7K	J	1/10W 1/10W 1/10W 1/10W 1/10W		
R225 R226 R227 R227,228 R228			RK73FE RK73FE RK73FE RK73FE RK73FE	32B: 32A: 32A:	102J 102J 102J	CHIP R CHIP R CHIP R CHIP R			1.0K 1.0K 1.0K 1.0K 22K	J J J J	1/10W 1/8W 1/10W 1/10W 1/10W	D L,N D	
R229 R230 R231 R232 R233			RK73FE RK73FE RK73FE RK73FE RK73FE	32A3 32A3 32A4	332J 104J 172J	CHIP R CHIP R CHIP R CHIP R CHIP R			4.7K 3.3K 100K 4.7K 1.0K	J J J J	1/10W 1/10W 1/10W 1/10W 1/10W		
R234,235 R236 R237,238 R239 R240,241			RK73FE RK73FE RK73FE RK73FE RK73FE	32A 32A 32A	472J 103J 473J	CHIP R CHIP R CHIP R CHIP R CHIP R			22K 4.7K 10K 47K 22K	J J J	1/10W 1/10W 1/10W 1/10W 1/10W		

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R242 R243 R245-250 R251,252 R253		RK73FB2A102J RK73FB2A103J RK73FB2A102J RK73FB2A472J RK73FB2A223J	CHIP R 1.0K J 1/10W CHIP R 10K J 1/10W CHIP R 1.0K J 1/10W CHIP R 4.7K J 1/10W CHIP R 22K J 1/10W	D
R254 R255-257 R258-261 R259-261 R262		RK73FB2A220J RK73FB2A472J RK73FB2A102J RK73FB2A102J RK73FB2A473J	CHIP R 22 J 1/10W CHIP R 4.7K J 1/10W CHIP R 1.0K J 1/10W CHIP R 1.0K J 1/10W CHIP R 47K J 1/10W	L,N
R263,264 R265 R266 R500 R501		RK73EB2B102J RK73FB2A101J RK73EB2B473J RK73FB2A105J RK73FB2A334J	CHIP R 1.0K J 1/8W CHIP R 100 J 1/10W CHIP R 47K J 1/8W CHIP R 1.0M J 1/10W CHIP R 330K J 1/10W	D D
VR3 VR4 VR5 VR6 VR7		R12-3127-05 R12-3129-05 R12-1090-05 R12-1086-05 R12-3685-05	TRIMMING POT.(10K) TRIMMING POT.(22K) TRIMMING POT.(4.7K) TRIMMING POT.(2.2K) TRIMMING POT.(10K)	
VR8 VR9 W1 -47 W49 -65 W68 ,69		R12-0605-05 R24-3646-05 R92-2053-05 R92-2053-05 R92-2053-05	TRIMMING POT.(220) POTENTIOMETER(80X1,20KX3) CHIP R 0 J 1/8W CHIP R 0 J 1/8W CHIP R 0 J 1/8W	D
W81 -92 W94 -100 W103-107 W108 W109,110		R92-2052-05 R92-2052-05 R92-2052-05 R92-2053-05 R92-2052-05	CHIP R 0 J 1/10W CHIP R 0 J 1/10W CHIP R 0 J 1/10W CHIP R 0 J 1/8W CHIP R 0 J 1/10W	
W112-114 W116 W120 W201 W204,205		R92-2052-05 R92-2052-05 R92-2052-05 R92-2052-05 R92-2052-05	CHIP R 0 J 1/10W	
W207,208 W215 W219 W220 W221		R92-2053-05 R92-2052-05 R92-2052-05 R92-2053-05 R92-2052-05	CHIP R 0 J 1/8W CHIP R 0 J 1/10W CHIP R 0 J 1/10W CHIP R 0 J 1/8W CHIP R 0 J 1/10W	L,N D D L,N
W223-225 W223,224 W226 W500		R92-2053-05 R92-2053-05 R92-2052-05 R92-2053-05	CHIP R 0 J 1/8W CHIP R 0 J 1/8W CHIP R 0 J 1/10W CHIP R 0 J 1/8W	D L, N D
D3 D4 D5 -8 D5 -8 D9 ,10		RD6.2JS(B2) DAP202K MA110 1SS355 1S1555	ZENER DIODE DIODE DIODE DIODE DIODE	
D12 D13 D14 -17 D14 -17 D18		ERA15-01 RM10Z MA110 1SS355 MA8068-M	DIODE DIODE DIODE DIODE ZENER DIODE	
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D19 D19 D20 D21 ,22 D21 ,22			MA110 1SS355 SD184-1 MA110 1SS355	DIODE DIODE DIODE DIODE DIODE	
D23 D24 -27 D24 -27 D28 -35 D37	·		HZS11B2L MA110 1SS355 1SS176 1SS176	ZENER DIODE DIODE DIODE DIODE DIODE	L.N
D38 -40 D38 -40 D41 ,42 D43 D43			MA110 1SS355 DAN202K MA110 1SS355	DIODE DIODE DIODE DIODE	
D44 D45,46 D45,46 D500 D500			ERA15-01 MA110 1SS355 MA110 1SS355	DIODE DIODE DIODE DIODE	D D
IC1 IC3 IC4 IC5 IC6 ,7			BA3424F LA1140 AN7465K M5280FP NJM4565MD	IC IC(FM IF/DETECTION) IC IC IC IC(OP AMP X2)	
IC10 IC11 IC12 IC12 IC13		*	TA8215H BA3906-V1 1723GF-593-3BE 1723GF-594-3BE TC4081BF	IC IC IC IC IC(AND X4)	D L,N
IC14 IC15 Q3 Q4 -6 Q7			NJM4565M TDA1579 2SC2413K 2SC2412K DTC144EK	IC IC(DECODER) TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR	D
Q10 -14 Q15 -20 Q17 -20 Q21 ,22 Q23 -25			DTC144EK 2SD1757K 2SD1757K 2SK433 DTC144EK	DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR FET DIGITAL TRANSISTOR	D L,N L,N
Q23 ,24 Q26 ,27 Q27 Q29 Q30 -32			DTC144EK DTA144EK DTA144EK DTC144EK 2SC2412K	DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR	D L,N D
Q33 Q34 Q35 Q36 Q37			DTC144EK DTA114EK DTC144EK DTA144EK 2SB1370	DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR	D
Q38 Q39 Q41 Q42 -44 Q46 -48			2SC2412K DTA144EK 2SC2412K DTC144EK 2SA1037K	TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR	D D
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参照番号	位 置	Parts 新	部品番号	部品名/規格		marks 備考
Q46 ,47 Q49 Q51 -54 Q55 Q56			2SA1037K DTC144EK 2SC2412K DTA144EK DTC114EK	TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR	L,N	
Q57 Q58			25A1428(0,Y) 25C2412K	TRANSISTOR TRANSISTOR		
TU1 TU1	3D 3D	*	W02-1279-15 W02-1280-15	TUNER ASSY TUNER ASSY	D L,N	
PL5 PL5 PL6 PL6			B30-1346-05 B30-1353-05 B30-1350-05 B30-1351-05	LAMP (5.5V.125A AMB) LAMP (5.5V,125MA) LAMP (5.5V,125MA) LAMP (5.5V,125MA)	D,L N D,L N	
			DAUGHTER	JNIT (X89-128X-XX)		
C1 -3 C11 ,12 C13 -15 C16 C53 -56			C92-0005-05 CK73EB1H103K CK73FB1H103K C92-0005-05 CK73FB1H182K	ELECTRO 2.2UF 6.3WV CHIP C 0.01UF K CHIP C 0.010UF K ELECTRO 2.2UF 6.3WV CHIP C 1800PF K		
C57 ,58 C59 ,60 C61 ,62 C63			CK73FB1H223KT CC73FCH1H030C CE04DW1E4R7M CE04DW1A101M	CHIP C 0.022UF K CHIP C 3PF C ELECTRO 4.7UF 25WV ELECTRO 100UF 10WV		
CN20	1 D		E08-4001-05	RECTANGULAR RECEPTACLE		
N	1 D		N80-2005-46	PAN HEAD TAPTITE SCREW		
R1 R2 R3 R4 R5			RK73FB2A822J RK73FB2A472J RK73EB2B332J RK73FB2A472J RK73FB2A105J	CHIP R 8.2K J 1/10W CHIP R 4.7K J 1/10W CHIP R 3.3K J 1/8W CHIP R 4.7K J 1/10W CHIP R 1.0M J 1/10W		
R6 R7 R8 R9 R12,13			RK73FB2A223J RK73FB2A473J RK73EB2B101J RK73FB2A223J RK73FB2A472J	CHIP R 22K J 1/10W CHIP R 47K J 1/10W CHIP R 100 J 1/8W CHIP R 22K J 1/10W CHIP R 4.7K J 1/10W		
R21 R22 R23 R24 R25 ,26			RK73FB2A473J RK73EB2B473J RK73FB2A472J RK73EB2B472J RK73FB2A101J	CHIP R 47K J 1/10W CHIP R 47K J 1/8W CHIP R 4.7K J 1/10W CHIP R 4.7K J 1/10W CHIP R 4.7K J 1/8W CHIP R 100 J 1/10W		e e
R27 ,28 R29 R30 R31 -33 R34			RK73FB2A472J RK73FB2A101J RK73EB2B103J RK73FB2A102J RK73FB2A472J	CHIP R 4.7K J 1/10W GHIP R 100 J 1/10W CHIP R 10K J 1/8W CHIP R 1.0K J 1/10W CHIP R 4.7K J 1/10W		
R35 ,36 R37 ,38 R45 R46 R47 ,48			RK73FB2A104J RK73FB2A223J RK73FB2A472J RK73EB2B472J RK73EB2B183J	CHIP R 100K J 1/10W CHIP R 22K J 1/10W CHIP R 4.7K J 1/10W CHIP R 4.7K J 1/8W CHIP R 18K J 1/8W		
R49 ,50			RK73EB2B100J	CHIP R 10 J 1/8W		

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参照番号	位置	Parts 新		部 品 名 / 規 格	nation	marks
R51 R52 R53 ,54 R55 ,56 R57			RK73FB2A472J RK73EB2B472J RK73EB2B183J RK73EB2B101J RK73FB2A102J	CHIP R 4.7K J 1/10W CHIP R 4.7K J 1/8W CHIP R 18K J 1/8W CHIP R 100 J 1/8W CHIP R 1.0K J 1/10W		
R58 R59 ,60 R61 ,62 R63 VR1 ,2			RK73EB2B102J RK73FB2A153J RK73FB2A222J RK73FB2A101J R10-4031-15	CHIP R 1.0K J 1/8W CHIP R 15K J 1/10W CHIP R 2.2K J 1/10W CHIP R 100 J 1/10W POTENTIOMETER		
W1 W3 ,4 W5 ,6 W7 ,8 W11 ,12			R92-2052-05 R92-2052-05 R92-2053-05 R92-2052-05 R92-2052-05	CHIP R 0 J 1/10W CHIP R 0 J 1/10W CHIP R 0 J 1/8W CHIP R 0 J 1/10W CHIP R 0 J 1/10W		
W17 W21 W22 -31			R92-2053-05- R92-2052-05 R92-2053-05	CHIP'R 0 J 1/8W CHIP R 0 J 1/10W CHIP R 0 J 1/8W		
b1 D2 ,3 D2 ,3 D4 D11			MA8068-M MA110 1SS355 DAN202K MA110	ZENER DIODE DIODE DIODE DIODE DIODE DIODE		
D11 D12 D13 D13 IC1			1SS355 ERA15-01 MA110 1SS355 TC74HC04AF	DIODE DIODE DIODE DIODE IC(INVERTER)		
IC2 Q1 -3 Q4 -6 Q7 Q11		*	NJM4565L-D DTC144EK 2SC2412K DTC114TK DTC144EK	IC(OP AMP X2) DIGITAL TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR		
Q12 Q13 Q14			2SC2412K DTC144EK 2SA1037K	TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR		
PL1 -4 PL1 -4			B30-1305-05 B30-1306-05	LAMP (5.5V .125A) LAMP (5.5V .125A)	D,L N	
				SSY (D40-1023-05)	1	
1 2 3 4 5	2A 2B 3A 3A 2B		A10-2089-08 J21-7207-08 D14-0616-08 N24-3012-41 D14-0617-08	CHASSIS CALKED ASSY MOUNTING HARDWARE ROLLER A E TYPE RETAINING RING ROLLER B		
6 7 8 9 10	2B 2A 3A 2B 2A		D14-0618-08 D14-0619-08 D10-2666-08 D10-2667-08 G01-2560-08	PINCH ROLLER F PINCH ROLLER R LEVER (FR CAM) LEVER (PROGRAM) TENSION SPRING		
11 12 13 14	3A 3A,3B 2B 3B		D13-1079-08 D13-1081-08 D15-0908-08 D10-2668-08	GEAR (IDLE) GEAR (TAKE UP) PULLEY LEVER		
D:KBC-4530				······································		

D:KRC-453D

L:KRC-453L

PARTS LIST

* New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnes dans le Parts No. ne sont pas fournis.

Telle ohne Parts No. werden nicht geliefert.

Ref. No.	Address N	ew Parts No.	Description	Desti- Re-
参照番号		新部品番号	部品名/規格	thation marks 仕 向 備考
15 16 17 20 21	3B 3B 3A,3B 3A 2A	D10-2679-08 G01-2557-08 D01-0603-08 D10-2669-08 D10-2670-08	LEVER TENSION SPRING FLYWHEEL LEVER LEVER (LOCK)	
22 23 25 30 31	2A 2A 3B 3A 3A	G01-2218-08 N84-2004-45 D13-1078-08 A11-0848-08 A11-0847-08	TENSION SPRING SCREW (M2X4) GEAR SUB CHASSIS ASSY SUB CHASSIS ASSY	
32 33 35 36 37	3A	D13-1077-08 G01-2563-08 G01-2579-18 G02-0473-08 D10-2645-18	GEAR (SWITCHING) TORSION SPRING TENSION SPRING FLAT SPRING LEVER	
38 39 40 41 43	3A 3A 3A 2B 2B	* D10-2671-18 G10-1012-08 D03-0305-08 N14-0701-08 N30-2004-46	LEVER FELT REEL DISK NUT SCREW (M2X4)	
44 45 51 52 53	2B 2B 2A 2A 2A	G01-2573-08 G01-2571-08 D10-2672-08 G01-2216-08 D10-2673-08	TORSION SPRING TENSION SPRING LEVER (EJECT) TENSION SPRING ACTION ARM	
54 60 61 63 64	2A 1B 1B 1B 1B	G01-2217-08 J19-4387-08 J19-4380-08 G01-2212-08 D10-2130-08	TENSION SPRING HOLDER HOLDER TENSION SPRING LEVER (INV)	
65 66 67 68 69	1 A 1 A 1 A 1 A 1 B	J90-0610-08 G01-2225-08 G09-0093-08 J19-2990-08 N39-2004-08	CASSETTE GUIDE TORSION SPRING SPRING HOLDER SCREW (M2X4)	
70 71 72 73 74	1 A 1 B 1 B 1 B 1 B	* G11-1065-08 J21-7264-08 D10-2674-08 G01-2574-08 G01-2556-08	CUSHION MOUNTING HARDWARE LEVER (RELEASE) TORSION SPRING TENSION SPRING	
77 78 79 81 83	18 18 18 18 18	N39-1706-45 D10-2675-08 D10-2676-08 G01-2572-08 N09-4039-08	SCREW (M1.7X6) LEVER (REW) LEVER (FF) TENSION SPRING SCREW	
84 85 86 92 101	2B 2B 2B 2A 2A	D10-2677-08 J74-0040-08 J84-0009-08 N39-2002-46 J21-7205-08	LEVER (SW) PRINTED WIRING BOARD PRINTED WIRING BOARD (FPC) SCREW (M2X2) MOUNTING HARDWARE	
102 103 109 112 121	2A 2A 2A 3B 1A	D10-2664-08 G01-2567-08 N30-2003-08 D16-0605-08 D10-2658-08	LEVER TENSION SPRING SCREW (M2X3) BELT ARM	

D:KRC-453D

L:KRC-453L

★ New Parts

PARTS LIST

Parts without Parts No. are not supplied.

Les articles non mentionnes dans le Parts No. ne sont pas fournis.

Telle ohne Parts No. werden nicht geliefert.

Ref. No.	Address New		Description	Desti- Re-
参照番号	位置新	部品番号	部品名/規格	仕 向 備考
122 123 124 125 126	1 A 1 A 1 A 2 B 2 B	D10-2678-08 J12-0647-08 G01-2562-08 J90-0722-08 N09-4009-08	LEVER PIN TORSION SPRING CASSETTE GUIDE SCREW (M2X5)	
127 152 153 161 162	1B 2A,2B 3A 3A,3B 2B,3A	N35-2006-46 N90-2003-46 N30-2603-46 N19-1144-08 N19-1134-08	SCREW (M2.6X6) SCREW (M2X3) SCREW (M2.6X3) FLAT WASHER FLAT WASHER	
163 164 181 182 HD1	2A, 2B 3A, 3B 2A 2B 2B	N19-1135-08 N19-1137-08 E40-9127-05 J19-4389-08 T31-0205-08	FLAT WASHER FLAT WASHER PIN CONNECTOR HOLDER PLAYBACK HEAD	
M1 51 52 53 54	2A 2A 2B 1B 1B	T42-0716-08 S31-3633-08 S31-3634-08 S46-1606-08 S46-1607-08	DC MOTOR ASSY SLIDE SWITCH SLIDE SWITCH LEAF SWITCH LEAF SWITCH	

D:KRC-453D

L:KRC-453L

SPECIFICATIONS

Specifications subject to change without notice.

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MW Tuner Section Frequency Range
LW Tuner Section Frequency Range
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$\begin{array}{llllllllllllllllllllllllllllllllllll$

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on the Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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